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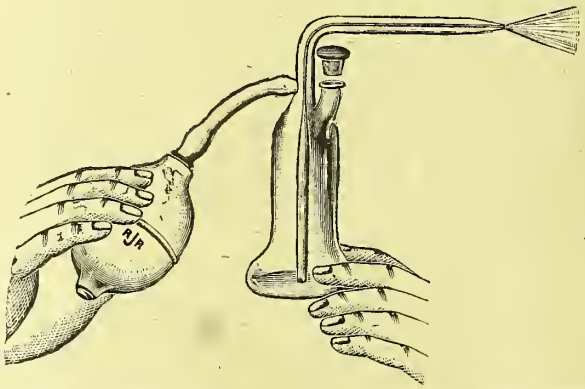

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Maw's Page.

NUMBER 328. JANUARY 26, 1918.

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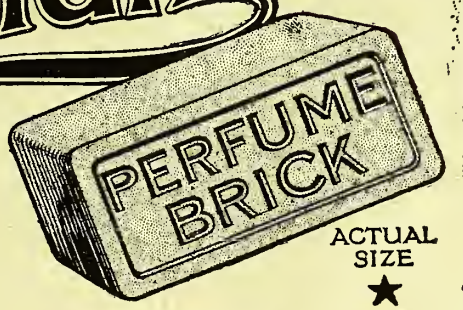

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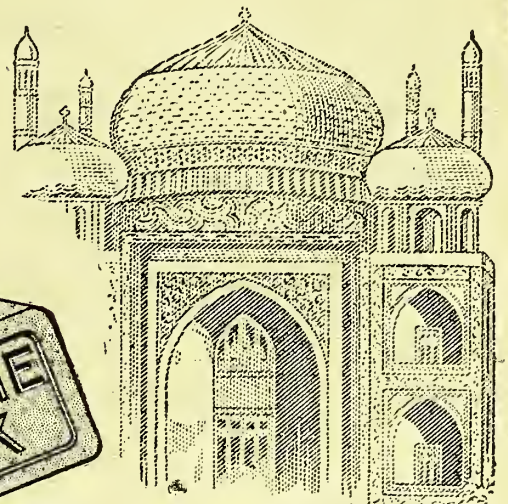

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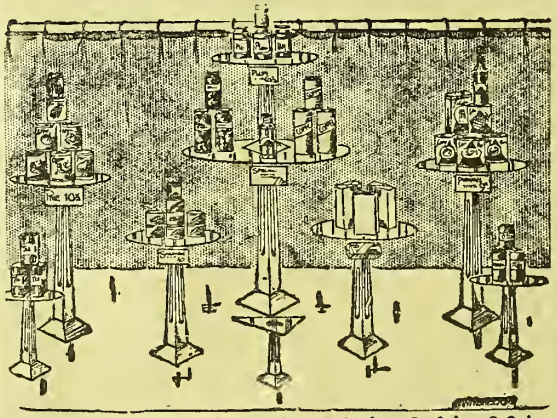

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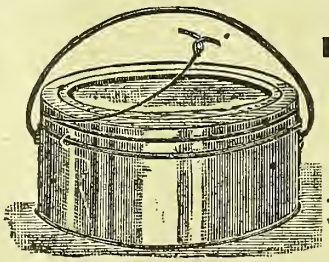

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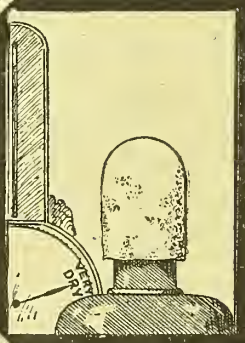

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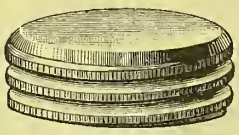

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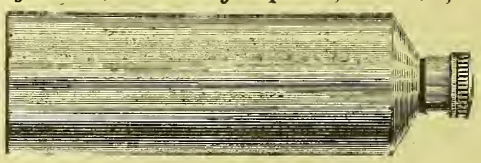

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We are just commencing a large advertising campaign. This has been so arranged to create a demand for our Retailers, and it will pay you to secure your stock without delay. Remember, EVAN WILLIAMS' HENNA SHAMPOO is a proposition which sells itself wherever shown.

Write TO-DAY for full particulars of our Special Autumn Discount Offer.

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NOTICE !

We strongly advise Chemists before purchasing their Toilet Specialities to send us particulars of their requirements, and complete Price List will be sent, or one of our representatives will call with full set of samples when in their vicinity.

We are holding a large stock at remunerative prices

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CHEMISTS' PACKED SPECIALITIES.
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Goods specially packed for shipment to all countries.

PRICE LISTS IN VARIOUS LANGUAGES.

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Drug & Herb Farm: CARSHALTON, SURREY. **Established 1833.**

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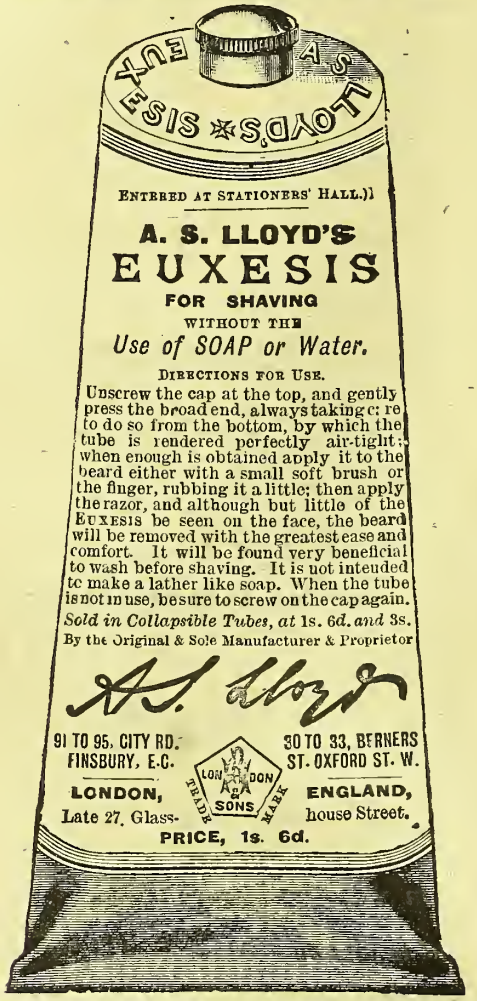
(THE GENUINE.)

For Shaving without Soap, Water or Brush.



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Retails at **1/6** *the tube;* **3/-** *size to order.*

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Forceful Publicity.
Attractive Showcards.
Handsome Profits.

ANZORA CREAM (non-greasy) and ANZORA VIOLA (for dry scalps) are the finest fixatives for the hair ever produced. Do not offer substitutes—they are bound to disappoint customers.

TRADE TERMS } **11/6 per doz., retailed at 18/-**
19/6 „ „ 30/-

ANZORA HAIR CREAM

Anzora Perfumery Co.
28, 32, 34 Willesden Lane, N.W. 6.

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Wholesale & Export Drug Merchants,
Manufacturing Chemists

HULL

INVITE the Trade to take up the following valuable P.A.T.A: Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A.	Protected Retail Price.	Dozen Net.
*LOSALL'S SALT (well advertised), tins	9d.	6/6
* „ „ „ „ „	1/6	13/-
* „ „ „ „ bottles in cartons	1/6	13/-

Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.

Owing to the great increase in the cost of raw material and containers for our Losall's Salt, we are compelled to raise the trade prices, but the retail protected prices are proportionately increased.

LOSALL'S COMPOUND SULPHUR SOAP.
A valuable emollient medicated skin soap, especially suitable for use in Eczema } 1/6 13/6

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—A. S. Lloyd in Black Ink, and that of his Widow, Aimée Lloyd, in RED. Refuse any other.

Sole Manufacturers and Proprietors: **AIMÉE LLOYD & CO.**

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N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

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Best Quality Only.

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Limited;

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SOTOL

Effervescing Tablets

dissolve into a fragrant, antiseptic, neutralising "bath" for the mouth and throat which supplements the admirable execution of the tooth-brush—an implement which cannot reach the throat. SOTOL does. It is in the mouth and throat that numerous illnesses are started, and the most scrupulous care is necessary to keep them clean and free from germs. A SOTOL gargle effectually washes the throat as well as the mouth, expels harmful germs likely to cause trouble; and is the most approved method of thoroughly cleansing the mouth and throat. (SOTOL is not swallowed, but after the throat has been cleansed is "brought back" and ejected from the mouth.) Also equally effectual as a nasal douche.

Samples and full particulars from the Manufacturers—

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TRADE "SILWYR" MARK.
From 10/6 per doz.

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INCORPORATED BRUSH FACTORIES.

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Slabs, Bars, Tablets or Discs

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Carnauba Wax Residues

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A Beautiful "Entente" Adherent to "Harlene Hair Drill"

In these War times it is indeed a pleasure to reproduce the photo of one of the many thousands of Entente adherents to "Harlene Hair Drill." Not only throughout the British Empire, but in all our Allied countries "Harlene Hair Drill" has always been extremely popular, and the products of Edwards' Harlene, Ltd., have always received a most cordial welcome from the public.

TO-DAY, in response to the Press announcements of Edwards' Harlene, Ltd., the demand for their products is wider than ever, and no Chemist or Store can afford to be without this unique line of toilet preparations.

"HARLENE" FOR THE HAIR.
"ASTOL" FOR GREY HAIR.
"UZON" BRILLIANTINE.
"CREMEX" SHAMPOO POWDERS.
"ASTINE" VANISHING CREAM.
"ASTINE" SHAVING STICK.
"ASTINOL" AROMATIC FLUID.

FOLLOW THE TIDE OF SUCCESS.

Watch the Great Free Gift Advertising Campaign that brings the customers to your shop.

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EDWARDS' HARLENE, Ltd.
20, 22, 24 & 26 LAMB'S CONDUIT ST., LONDON, W.C.1.

Photo: Rita Martin.

MISS GINA PALERME, the beautiful French actress—a cordial supporter of "Harlene Hair Drill."

Salvo Petrolia

the perfection of Petroleum Jelly

in qualities, white, lemon, yellow and golden, for pharmaceutical purposes.

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The Dee Oil Company, Ltd.

Delta Works . Bootle . Liverpool.

Packed in barrels, kegs, and smaller packages according to requirements.

Inquiries are solicited for this article of **BRITISH MANUFACTURE,** and buyers may rely that for quality and price it will meet any competition.

Other Grades

Petroleum Jellies, White Bases, &c.

Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

'Phone: 186 Bootle. Wires: "Cestrian Liverpool."

Powder Puffs.

A variety of over 100 attractive patterns.

Prompt delivery.

F. SCHUTZE & CO., Ltd.,

Specialists in Powder Puffs,

CALEDONIAN MARKET,

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NAIL - POLISHING

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cannot be beaten as a selling line to-day, because it's beautifully packed and sent out on sale-compelling cards or easel-backed cartons, either of which will grace any counter.

4/6 PER DOZ. HALF-DOZEN BONUS WITH EVERY 3 DOZEN ORDER. EACH P.A.T.A. **7½D.**

Lots of Chemists send for the bonus quantity, and sell it easily, too. They also know that with things moving upwards, as they do daily now, such a generous offer must sooner or later be withdrawn. Have you your supply?

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OLD SWAN LANE

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The Ideal Germicide & Antiseptic.

Burgoyne's Lysol is a pure cresol preparation containing fifty per cent. of absolute Cresylic Acid, and is perfectly neutral.

NON-CORROSIVE AND CLEANLY IN USE.

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LTD.

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We find that Chemists have been notifying their Physicians regarding certain of our preparations containing Cocaine which come under the Defence of the Realm Regulations. So to obviate the difficulty we have decided to use Eucaine as a substitute in the under-mentioned preparations, including the noteworthy **Neboline Compound No. 21**—the reliable specific in Asthma: Vide the opinion of the *Lancet's* leading counsel in a notable High Court case. Exhaustive clinical tests have demonstrated the equal effectiveness of Eucaine to Cocaine in the preparations under notice.

Anæstiform, Anæstiform Aseptules, Aseptoids Nasal Compound, Cerettes Cocaine, Cerettes McGillivrays, Neboline Compounds Nos. 2, 5, 9, 10, 19, 20, 21.

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THE BEST OF THEIR KIND

The quality that grips the customer's confidence—but never shakes it.

Actual size.

'PAROLEINE'

(Trade Mark)

Liquid paraffin of exceptional purity and of the correct viscosity for internal use.

Supplied in bottles of 4 fl. oz. at 16/0 and 1 lb. at 48/0 per dozen, subject

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Ideal for children and adults who cannot take the plain oil.

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ACETIC ANHYDRIDE. TRIACETINE, CAMPHOR SUBSTITUTES.

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The *Lancet* describes it as "Mr. Benger's admirable preparation."

BENGER'S
GOLD MEDAL AWARDED HEALTH EXHIBITION, LONDON.

The *British Medical Journal* says: "Benger's Food has by its excellence established a reputation of its own."

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Wholesale of all Wholesale Houses and Shippers or from the Manufacturers

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ON THE P.A.T.A.

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PENCILS ARE SELLING EVERYWHERE

because they live up to the Press statements, and Chemists know quite well the risks of bad stock is absolutely nil.

"OUR COIN DISPLAY"

is still available on 6 dozen orders, on our **generous terms**. It is so easy to put in that it calls for next to no labour. Have you tried it out yet?

4/6 PER DOZ. | EACH P.A.T.A. **7½d.**
NOTE THE PROFIT.

CHRISTY'S,
OLD SWAN LANE,
LONDON, E.C.4.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official Journal of many Chemists' Societies in Australia, Ireland, New Zealand, South Africa, and the West Indies.

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Telegrams: "Chemicus, Cannon, London." Telephone 3617 Central (three lines).
Branches: MELBOURNE AND SYDNEY, AUST.

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Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, January 28.

Edinburgh Chemists' Trade Association, 36 York Place, at 8 P.M. Mr. K. J. C. McLennan on "Salesmanship in Relation to Commercial Pharmacy."

Wednesday, January 30.

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 8 P.M. Annual meeting and presidential address by Mr. William P. Evans on "Present Trade Difficulties."

Thursday, January 31.

South-East London Pharmacists' Association, Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, W.C., at 3 P.M. General meeting; tea at 5.30 P.M.

Friday, February 1.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 5.30 P.M. Professor A. S. Eddington, F.R.S., on "Gravitation and the Principle of Relativity."

SAWDUST is recommended as an extinguisher for burning liquids in preference to sand, as it cuts off the supply of oxygen more quickly. It should not be used to mop up strong acids.

European War News.

Import and Export Notices.

FRANCE.—At a meeting of the British Chamber of Commerce, it was decided to request the French authorities to increase the period of validity which is at present allowed in respect of licences for the import of goods into France. It was pointed out that the existing period, "ninety days from date of licence," is insufficient.

NORWAY.—An extension of export prohibitions from Norway now includes wax of all kinds.

UNITED KINGDOM.—The "London Gazette" of January 22 announces (1) *that the undermentioned headings should be deleted from the list of prohibited exports*: (c) Algin and its compounds; (b) bitumen, liquid or solid; (c) celluloid, articles wholly or partly manufactured of. Chemicals, etc., the following: (b) Ammonia and its salts, whether simple or compound (except ammonium nitrate, perchlorate, sulphate, and sulphocyanide); (b) ammonia, liquefied; (b) ammonia liquor; (b) ammonium alum; (a) cinchona-bark, its alkaloids and their salts; hydrastis canadensis; (b) nickel, oxides and salts of (except nickel nitrate), and mixtures containing such oxides or salts of nickel; (b) phosphorus and its compounds; (b) sodium carbonate; (c) sodium sesquicarbonate; (b) fustic (chips and extract); (b) glue, osseine and concentrated size, fish-glue, isinglass, finings, and other kinds of gelatine; (b) logwood (chips, extract, and preparations); (c) spirits, potable, of a strength of less than 43 degrees above proof. (2) *That the following headings should be added*: (b) Algin and its compounds; (a) bitumen, liquid or solid; (a) celluloid, articles wholly or partly manufactured of. Chemicals, etc., the following: (b) Ammonia and its salts, whether simple or compound, and mixtures containing such salts (except ammonia liquor, liquefied ammonia, ammonium alum, ammonium carbonate, chloride, nitrate, perchlorate, sulphate and sulphocyanide, and nickel ammonium sulphate, and mixtures containing such ammonium salts); (a) ammonia, liquefied; (a) ammonia liquor; (a) ammonium alum and mixtures containing ammonium alum; (a) ammonium carbonate and mixtures containing ammonium carbonate; (a) ammonium chloride, including muriate of ammonia and sal-ammoniac, and mixtures containing these substances; (a) cinchona-bark, its alkaloids and their salts, and preparations of any of these substances; (c) hydrastis canadensis and hydrastine; (a) nickel ammonium sulphate and mixtures containing nickel ammonium sulphate; (b) nickel, oxides, and salts of (except nickel ammonium sulphate and nickel nitrate), and mixtures containing such oxides or salts of nickel; (a) phosphorus and its compounds; (a) sodium carbonate in all forms, including sodium sesquicarbonate and mixtures containing any of these substances; (a) fustic (chips and extract); (a) glue, osseine, and concentrated size (and other sizes and sizings made from glue), fish-glue, isinglass, finings, and other kinds of gelatine; (a) logwood (chips, extract, and preparations); (a) respirators and self-contained breathing sets intended to afford protection to the wearer against toxic atmospheres; (a) spirits, potable, of a strength of less than 43 degrees above proof.—The Director of the War Trade Department notifies that in view of the fact that logwood, fustic, cutch, and natural indigo originate in countries from which tonnage to the United Kingdom is inadequate for home requirements, licences for the transhipment or re-export of these commodities, or of their extracts or preparations, will not be issued, save in exceptional circumstances, on and after March 1 next. Applications received prior to that date will be considered on their merits, provided the material is at the present date in or *en route* to the United Kingdom.—The Director of the War Trade Department also notifies that by arrangement with the United States authorities, licences for future exports to the United States of shellac and lacs of all kinds will be drawn for consignment only to the United States Shellac Importers' Association, Inc., New York.—Antimony ore, crude and regulus antimony, and antimony sulphide have been added to the list of prohibited imports.

War Priorities Committee.

It was officially announced on January 14 that the War Priorities Committee, which has been appointed to decide questions of priority of manufacture in their bearing on the conduct of the war, consists of Lieutenant-General J. C. Smuts (Chairman), the First Lord of the Admiralty, the Secretary of State for War, and the Ministers of Munitions, National Service, and Air. The Committee is assisted by a permanent Sub-Committee, composed of representatives

of the five Departments above named. The war requirements of the various Departments are examined and co-ordinated by the Committee, which decides the relative importance of their demands in accordance with the general rulings laid down by the War Cabinet, and arranges the allocation of the material resources and productive capacity of the country in the order of priority allotted. The War Priorities Committee performs its functions largely through the Allocation Sub-Committees, which are composed of representatives of the consuming Departments. These Sub-Committees have been set up to investigate the available supply of specific materials and the requirements of the several Departments and public services, and to allocate the supply. Differences of opinion occurring within these Sub-Committees will be referred to the War Priorities Committee. Another Sub-Committee has been set up which deals with works of construction, both public and private.

Personalia.

Private Thomas Tyrrell, recently posted as "missing" (*C. & D.*, January 19, p. 33), is now known to be a prisoner of war in Germany.

Sapper J. J. Gough, R.E., has been awarded the Military Medal. He enlisted at the age of sixteen from the Bond Street, Leeds branch of Boots, Ltd.

Lance-Corporal William Bryce, Gordon Highlanders, has been awarded the Military Medal for bravery in the field. In civil life he was with T. & H. Smith, Ltd., Edinburgh.

Pioneer F. G. Palley, R.E., has been spending a few days' leave in Wales, where in peace-time he was well known as the representative of Southall Bros. & Barclay, Ltd.

Private S. H. Taylor, Royal Fusiliers (City of London), is in hospital wounded. Before joining the Forces, in May 1915, he was with Mr. J. Laurie, chemist and druggist, Lytham Road, Blackpool.

Private John Robinson, King's (Liverpool Regiment), reported missing since November 30, is a prisoner of war in Germany. Before joining the Army he was with John Riley & Sons, manufacturing chemists, Hapton.

Acting-Captain John Robert Black, Seaforth Highlanders, has been awarded the Military Cross. Lieutenant Black, who is the third son of the late Mr. James Black, J.P., chemist and druggist, Leslie, has been in France since September 1914, and was commissioned in February 1916.

Second-Lieutenant T. R. Smith, who has recently received his commission, is a nephew of Mr. John Henry Smith, Ph.C., Bridge Street, Newark, with whom he served his apprenticeship. Second-Lieutenant Smith was called up in a Yeomanry regiment in August 1914, and has seen much service in the East.

Second-Lieutenant John Knox, Royal Irish Rifles, has been awarded the Military Cross for conspicuous gallantry and skill during the Cambrai attack on November 20. Second-Lieutenant Knox, who is a Ph.C. (Ireland), held appointments with S. Connor & Sons, chemists, Newry, and Burroughs Wellcome & Co.

Lieutenant-Colonel Colin Kynaston Potter, M.C., Loyal North Lancashire Regiment, has been awarded the Distinguished Service Order. It is officially stated that after commanding his battalion in an attack, and capturing all his objectives, he personally directed the consolidation of a position which he held against hostile counter-attacks, even after the division on his right had given way. Colonel Potter is the son of Mr. E. P. Potter (E. P. Potter & Co., Ltd., manufacturing chemists, Little Lever).

Second-Lieutenant Alexander Donald Miller, Gordon Highlanders, has been awarded the Military Cross for conspicuous gallantry and devotion to duty. The official record states: "When his other company officers had become casualties he took command without hesitation, and led the company forward with splendid control and utter disregard of personal danger. When suffering heavily from flaming machine-gun fire he organised an attack upon the gun, captured it, and killed the team. Although his company had lost half its fighting strength the objective was captured and consolidated entirely owing to the energy and determination of this officer." Second-Lieutenant Miller served his apprenticeship with Mr. D. W. Nicolson, chemist and druggist, Leith Walk, Edinburgh. He passed the Minor examination in January 1914, joined the Forces on the outbreak of war, and has since been wounded.

Miscellaneous.

Approved Firms in China.—Among the additions to the list of persons to whom articles to be exported to China may be consigned is the Ping Yee Han Drug Store, Canton.

Oils and Fats Order.—In further reference to the Oils and Fats Requisition Order, 1917 (*C. & D.*, January 5, p. 33), by which the Food Controller takes possession of old stocks of oils and fats mentioned in the schedule, it should be pointed out that the Order does not apply to persons who do not hold more than 5 tons of any one variety.

Mexican Black List.—The latest list of additions to the Statutory list of firms of enemy nationality or enemy association, with whom persons in the United Kingdom are forbidden to trade, deals solely with Mexico, there being 311 names on the list. Among them we notice George Leuders & Company, Av. Independencia, 10 and 5A Capuchinas 94, Mexico City.

The Control of Spelter.—The Minister of Munitions has extended the Order made by him regarding the control of spelter on March 23, 1917. The new Order lays it down that the expression "spelter" shall mean spelter of all qualities, and shall include sheet and rolled zinc, scrap zinc, hard spelter, dross, zinc ashes, flux skimmings, zinc dust, zinc ore, zinc oxide, zinc sulphide (or lithopone) whether dry, in oil, or prepared for use, and zinc compounds of every kind, or any of them.

Y.M.C.A. Fund.—Among the subscriptions announced to the Christmas and New Year appeal of the Young Men's Christian Association Fund are the following: Stevenson & Howell, Ltd., 52*l.* 10*s.*; Whiffen & Sons, Ltd., 50*l.* Many smaller subscriptions have been received. The Hon. Secretary of the Fund is Mr. Herbert Brown, 13 Russell Square, London, W.C. 1. The Secretary informs us that the appeal is closing at the end of the month, and he would be glad to receive further subscriptions from the drug and chemical trade.

Military Tribunals' Decisions.

Since our Last Report the following decisions have been notified:

Ashton-under-Lyne.—Mr. Stanley Buckley, apprentice to Mr. J. W. Ardern, chemist and druggist, was for examination purposes granted exemption to April 30.—Mr. Fred Smith, on the staff of Bostock & Sons, Ltd., chemists and wholesale druggists, was exempted to June 30.

Burnley.—A doctor's dispenser, for whom the doctor applied, was granted an extension of time to February 15. It was stated that the man was a weaver, and filled up his time with dispensing.

Calne.—Exemption to May 1 was granted to Mr. W. J. Peacock, chemist and druggist.

Morecambe.—Conditional exemption was granted to Mr. Richard George Postlethwaite, chemist and druggist.

Oxford.—The appeal for exemption of Mr. W. Jarvis, chemist and druggist, assistant with Mr. T. J. A. R. Burbank, Walton Street, was dismissed, applicant being allowed a month's grace.

Rochester.—Three months' exemption was granted to Mr. H. B. Burr, assistant with Ostler & Co., Ltd., chemists, High Street, Strood.

Southwark. — A conditional-exemption certificate was withdrawn from a foreman lozenge-maker employed by Smith & Co., 132 Borough High Street. He was granted instead three months' exemption on domestic grounds, the Tribunal holding that the business claim failed because the salary paid was only 2*l.* 7*s.* a week.

Winchcombe.—Conditional exemption was granted to Mr. J. P. Hawley, chemist and druggist.

Tales of Oenophus.

VI.—Teachynges and Examenynges.

Wherefore ye Examenynge of Yonge Persons in Knowledge of Crafte bringeth with it Much Kudos and High Profit. So it behoveth Those in Authority to Nurture It with Carefull Hande.

Eke it beseemeth Professorial and Other Perishers to gather in Conelave and to Thynke ye Thynge Out. And One saith: Ye Tymes are Harde. And Another saith: Ye Victimes are Few. Butte Alle agree that ye Taske is Too Easey by Halfe.

Thenne they sing together ye Students' Huntynge Songe, "Curriculum! Curricula!"

Presentlie ye Mightie One frowneth upon them so that they shrinke from his Lurid Glare.

"Gadzooks! 'Twill take Too Long," he thundereth; "methinks Ye have forgotten that before I yield This Sceptre Somethynge must be Pushed Throughe. Behold, I will make Myself a Bye-Worde!"

Whereat ye Welkin Rang with Loud Acclaim, and there arose a Great Chantynge: "Nicke him a Knightliehood!"

Butte ye Trew-Wisdom-Seekers wept in Outer Darknesse.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

The Board of Trade.

The scheme for the reorganisation of the Board of Trade, which has been widely discussed in commercial circles, has been issued as a Parliamentary White Paper. The work of the Board will be organised in two Departments—Commerce and Industry and Public Service Administration. The first will be subdivided into a number of sections. Heads of Departments will make frequent visits to the chief centres of commerce and industry at home and abroad to obtain personal acquaintance with manufacturers and merchants and industrial conditions. The Department of Commerce and Industry will be mainly concerned with the development of trade, with vigilance, with suggestions, with information, and with the duty of thinking out and assisting national, commercial, and industrial policy. The Department of Public Services Administration will be primarily engaged in the exercise of statutory and other administrative functions of a permanent nature with regard to trade and transport.

Birmingham.

Mr. J. A. Watson, Chadwick Manor, has given 1,000*l.* for County Scholarships in Chemistry.

Lengthy and imposing are some of the advertisements in local papers on hospital venereal treatment.

Pharmacists here are asking when they will be allowed to use rape oil or some other substitute for olive oil in making lin. camph.

Owing to the increased cost of lenses, the Birmingham Eye Hospital requires out-patients to produce four tickets each when spectacles are provided.

Mr. Samuel Wyatt's book of poems has brought forth an appreciative note from Mr. J. H. Thomas, M.P., who began life as an errand-boy in the pharmacy in which Mr. Wyatt served his apprenticeship.

Liverpool.

The Liverpool Commercial Library, opened a few months ago (*C. & D.*, August 4, p. 34), is still without a copy of the British Pharmacopœia.

A central pharmacist sent a wholesaler an order of fifteen lines of ordinary requirements. It was returned with the endorsement: "All out of stock."

Mr. Andrew Chapman, well known here as the representative of "Zenobia" for several years, is in hospital with a severe injury to his wrist incurred in the Military Transport Service.

The conviction recorded against Mr. J. R. Aikyo in the "invisible ink" case last November (*C. & D.*, December 1, 1917, p. 35) was quashed at the Liverpool Sessions on January 19.

Nominations for the six rotation vacancies on the Council of the Liverpool Chemists' Association are Messrs. Ashcroft, Brigham, Ph.C., W. H. Clubb, Ph.C., Furniss, John H. Robinson, and Dr. Symes.

Some of the anecdotes in Mr. John H. Robinson's recent lecture to the Chemists' Association (*C. & D.*, January 19, p. 38) enhanced his reputation as a ready champion of the rights of pharmacists. Another much-appreciated feature was the cartoons drawn for the lecture by Mr. John A. A. Berrie.

Manchester.

Reports of record takings for the past year are numerous, and money is still being spent freely.

A number of local pharmacists are advertising for assistants, "either sex" being specified in one instance.

A Manchester University chemist, in the course of research on certain important chemicals, has been experimenting on himself with untoward results. Happily, he is recovering.

Pharmacists who have visited in past days the Manchester Municipal School of Technology will be interested to learn of its new title, "The Manchester Municipal College of Technology." Its Government grant for 1916-17 was 16,000*l.*

A Belgian medical man in South Manchester frequently orders five-ounce mixtures with a three-tablespoonful dose. The odd half-ounce allows for generous latitude in measuring out: whether this is the prescriber's intention is another question.

On an Insurance script recently received by a local chemist was the item, plainly written, "Morph. acet. ʒiij." The prescriber, on being consulted, remarked: "Any fool would know what I intended, namely, three grains." *Noblesse oblige.*

Mr. William Lane (James Woolley, Sons & Co., Ltd.), the new President of the P.A.T.A., is a well-known Manchester chemist, having been connected with the local Association for many years as a member of the Council, and recently as its Vice-President.

Sheffield.

Exell Bros., chemists, have taken the old Weights and Measures Offices in Bower Springs for use as a "heavy" department.

Local inquiries have elicited the ruling that pharmacists who are using only small quantities of sugar are not at present required to keep a detailed account.

On account of depletion of staff, Bovril, Ltd., have decided to close their Sheffield branch during the war. The business will be done through their Manchester branch.

Miss Culverhouse, sister of Mr. A. H. Culverhouse, President of the Sheffield Chemical and Pharmaceutical Society, is home on leave after a narrow escape in an air-raid in France.

As the amount of chemists' Insurance administrative expenses for Sheffield in 1916 was only 1.66 per cent., nearly 100*l.* is to be returned out of the 2½ per cent. originally deducted.

Pharmacists here are keeping a sharp eye on bottles brought for supplies of strong acids since the recent experience of one of their number, who was beginning to pour acid. nitric. fort. into a bottle that had contained turpentine, and just saved himself from a nasty accident.

Miscellaneous.

"TANK" INVESTMENT.—Among the sums announced on the opening day of the Tank bank campaign at Nottingham was 105,000*l.* from Boots, Ltd.

FAILURE TO ANSWER TEST-CALL.—At Ashton-under-Lyne, on January 23, H. N. Morris & Co., manufacturing chemists, Alpha Mills, Denton, were fined 25*l.* for failing to answer the Field-Marshal's test-call on January 6 and other occasions.

ARMY SIGHT-TEST.—An Army Council instruction has been issued stating that it has been decided that the standard of vision for A.S.C. (M.T.) drivers will not be less than 6/18 in one eye and 6/60 in the other eye, provided field of vision to fingers is normal.

TEA-LEAVES CASE.—A fine of 250*l.* was imposed at West Ham Police Court, on January 22, on George Amies, Stratford and Bow Road, E., for manufacturing used tea-leaves in imitation of tea and being in possession of tea-leaves so manufactured. (See *C. & D.*, January 19, p. 36.)

WAR-SAVINGS CERTIFICATES.—The National War-savings Committee, Salisbury Square, London, E.C. 4, have devised a new scheme whereby shopkeepers may become official agents for the sale of War-savings Certificates. A postcard to the Controller will bring details of the scheme.

NORTHAMPTON INSTITUTE.—At the prize distribution held on January 19 at the Northampton Polytechnic Institute, Clerkenwell, London, E.C., the Principal, Dr. R. Mullineux Walmsley said that the technical optics department had been depleted of its students by the demands of the war. There had, on the other hand, been courses for women students in lens- and prism-grinding, which had been very successful.

THE USE OF VERONAL.—During the hearing of a case in the High Court this week, brought against an insurance company to recover the amount of a life policy, it was alleged that deceased did not disclose the fact that he was addicted to veronal, this constituting concealment of material facts in the proposal on which the policy was based. The case occupied two days, and in the end the jury disagreed and were discharged.

IMPERIAL INSTITUTE.—A series of thirteen illustrated lectures on the tropical products of the Empire is to be given at the Imperial Institute on Wednesdays at 3 P.M., commencing on January 30. The lecture on February 27 is on gums and resins, on April 3 on dyes, and on April 24 on drugs. Admission to the lectures is free by ticket, for which application should be made to the Director of the Imperial Institute, South Kensington, S.W. 7.

FATALITIES FROM BURNS.—An open verdict was returned at an inquest at the London Hospital, on January 19, on Mr. Charles Henry Hudson, works-manager of the United Gas Mantle Co., Wellclose Square, London, E., who died from burns. It was stated that he was using a spanner for inserting a tube into a 10-gal. drum of ether when

the contents of the drum suddenly blazed up.—A lad named Joseph Brook, living at Slaithwaite, died in hospital from nitric-acid burns. He was shaking up mercury with nitric acid in a bottle when the contents were forcibly ejected into his face.

POOR-LAW DISPENSERS.—In reply to an application from the Public Pharmacists' Association to adopt the revised scale of war bonuses, as granted to Civil servants, to dispensers in the Poor-law Service, the Local Government Board have agreed to sanction, for the period of the war, payment of additional remuneration within the limits now authorised for Civil servants in accordance with the new scale recommended by the Conciliation and Arbitration Board for Government employés, as set out in their award of December 17, 1917. Pharmacists in the service can obtain further particulars by applying to Mr. Geo. W. Gibson (Hon. Secretary), St. Pancras South Infirmary, Pancras Road, N.W. 1.

TINPLATE SUPPLIES FOR CONTAINERS.—A meeting of the Association of Manufacturing-Chemists, Ltd., was held at Cannon Street Hotel, London, E.C., on January 23, to discuss the question of the release of tinplate for containers of food, ointment, tooth-powder, etc. Mr. G. W. Harrison (Reading) was voted to the chair, and after an introductory speech called on Mr. Parkin Booth, the Association's Secretary, to read two letters received by him from the Ministry of Munitions. After stating that all supplies of tinplate for the next six months are absorbed in uses of greater urgency, the Ministry consented to receive a deputation; and after a discussion (largely informal) on the chances of obtaining favourable treatment, representatives of ten wholesale houses were nominated to form a deputation, with power to act on behalf of the Association.

POISONINGS.—Expert evidence on veronal was given at an inquest at Westminster, on January 21, on the body of General Sir Beauchamp Duff, who was found dead in bed on January 20. After stating that the appearances of the body suggested death from some drug such as veronal, of which, apparently, seventeen tablets had been taken in twenty days, Dr. R. S. Trevor, pathologist of St. George's Hospital, explained that it was difficult to estimate definitely what is a fatal dose of veronal. He had known death to result from taking 5 gr., but had also known recovery after taking 150 gr. Veronal produced a certain amount of tolerance, but not so much as morphine or other drugs. A verdict of "Death by misadventure" was returned.—Mr. Frank Kirkman, Church Lane, Harwood, was lately found dying in the cellar of Boots' shop at 139 Derby Street, Bolton, and near him were four empty 4-dr. diluted hydrocyanic acid bottles. Evidence was given that he had been studying very hard: a verdict of "Suicide while temporarily insane" was returned at the inquest.—A similar verdict was returned at a Poplar inquest, on January 21, on Vladimir Marin, a Russian subject, who died in a local hospital after taking morphine and leaving a letter to the effect that he was worn out with phthisis.

Irish News.

Brevities.

David Beatty, Dungiven, was summoned last week for selling Glauber's salt as Epsom salt, but the case was dismissed.

Mr. W. Hopkins Ashmore, Ph.C., 21 Dawson Street, Dublin, is to be married on February 6 to Miss Gladys Dorothy Haskins, Wicklow.

At Cavan County Council last week, Sir Charles Cameron, county analyst, applied for an increase of salary, which was refused. The present salary is 60*l.* per annum.

The Finance Committee of Belfast Board of Guardians has recommended a special bonus of 10*l.* to Messrs. M. E. Logan and J. P. Hamilton, dispensers, in view of the increased cost of living.

At the annual meeting of the Newcastle (co. Down) Branch of the Royal National Lifeboat Institution on January 17, Mr. Robert Hastings (Robert Hastings, Ltd., chemists) was appointed a member of the Committee.

At Larne Quarter Sessions last week, Wilson, Jordan & Alexander, wholesale druggists, Belfast, sued E. Boyd and others, who reside in Larne, for recovery of 19*l.* 0*s.* 9*d.* for goods sold. The case was adjourned to the next Sessions.

The Sugar Order (Ireland), 1917, made by the Ministry of Food has been published as Statutory Rules and Orders, 1917, No. 1,330. Provision is made for the supply of sugar to manufacturing businesses which are defined as those in the course of which sugar is used.

Scottish News.

Brevities.

Artistic calendars have been sent out by two Saltcoats pharmacists, Mr. Thomas M. Taylor and Mr. William Wallace.

A further appeal is being made on behalf of the panel chemists of Zetland, barely half their deficit of 100*l.* having, so far, been subscribed.

A month's trial of the new Scottish chemists' retail-price list has failed to convince many Dundee pharmacists of its superiority over the local sheet it has replaced.

It is proposed to utilise Sutherlandshire deposits of felspar for their potash, thus reviving a Scottish industry carried on in Aberdeenshire a century and a half ago.

The sum of 200*l.* has been spent in Western Perthshire during the last six months on rat virus supplied by local chemists, and the Board of Agriculture for Scotland have consented to make a further grant for the coming spring season.

From the central surgical-dressings store of the Scottish branch of the Red Cross Society, 111,383 bandages, dressings, and splints, and 480 packets of cotton, wool, lint, etc., were despatched during December to hospitals at home and abroad.

It has been decided to grow 2,000 acres of flax in Fifeshire, and premises for dealing with the crops are being erected at Leslie, Cupar, and Dunfermline. Several women will be sent to Somersetshire for instruction in harvesting, and a minimum price of 14*l.* per acre is promised by the Government.

Edinburgh.

Edinburgh chemical-workers are demanding increased wages as from October 1, 1917.

The Rev. George Jack, of "Helios" fame, has issued an estimate of the yield for 1917 of his prize allotment, which, he reckons, gives a return for labour at the rate of 100*l.* per acre.

"Drink deep, or taste not the Pierian Spring." The proprietor of a pharmacy was deep in talk with a customer, when his new apprentice sidled up with a half-dispensed mixture and innocently inquired whether he should fill it up "wi' watter noo." What the pharmacist said to himself is not recorded.

Dr. John Haddon, writing to the local Press on the proposed University Chair of Therapeutics, remarks: "What occasion there can be for such a chair so long as that of Materia Medica exists it is difficult to understand, for it is practically a therapeutic chair." The doctor is a well-known authority on food questions, and has traced to food the chief cause of disease.

Chemists who stock the "blend" will be interested in the decision given by Lord Cullen, on January 15, in the case in which Andrew Melrose & Co., tea-merchants, Edinburgh, sought to restrain Aitken Melrose & Co., Ltd., Forth Street, from a particular use of the word "Melrose" in describing teas. His Lordship held that the pursuers' averments were irrelevant to infer that the undertaking was enforceable against the defendants. In other words, the action failed.

Glasgow.

At a meeting here on January 22 of persons interested, it was decided to form a Scottish Engineering, Shipbuilding, and Metallurgical Research Association.

"Tank" investors include the Burmah Oil Co. (50,000*l.*), the Cassel Cyanide Co., Ltd. (10,000*l.*), Perry & Hope, Ltd. (10,000*l.*), and the Pumpherston Oil Co., Ltd. (125,000*l.*).

Owing to a partial collapse (caused by the recent snowfall) of the roof of the British Industries Fair buildings, the opening ceremony has again been postponed, and is now announced for May 6.

"The Autobiography of a Tin of Jam" is the title of a humorous article contributed to an Ayrshire paper by Private Andrew Johnston, R.E., who is remembered here as an assistant with Mr. David Moir, chemist and druggist, Shawlands.

Two Glasgow pharmacists have been visiting the city on leave—Lieutenant Frederick Gray, who in civil life assisted his brother, Mr. Horace G. Gray, chemist and druggist, Partick, and Pioneer J. P. Spowart, R.E., late a branch manager for Cockburn & Co., Ltd.

Colonial and Foreign News.

WAR PROPAGANDA.—Among the patriotic homilies appearing broadcast in Italian newspapers is an injunction to pharmacists to "Insist on your customers buying home productions."

FORMULA DISCLOSURE.—Mr. T. M. Maben, Ph.C., Hon. Secretary of the Straits Pharmaceutical Association, informs us that an Ordinance to further amend the Sale of Food and Drugs Ordinance, 1914, is being introduced in the Legislative Council of the Straits Settlements. The Bill empowers—

(*a*) The Governor in Council to make regulations (i.) prohibiting the importation of specified articles which are either dangerous or unsuitable as articles of food or medicine; and (ii.) requiring the ingredients of patent medicines to be disclosed at or prior to the sale of such medicines; and

(*b*) Any officer within the meaning of the principal Ordinance to take samples (i.) of milk in the course of delivery from the vendor to the purchaser, and (ii.) of any other article of food at the place of delivery upon the request, or with the consent, of the purchaser.

THE HALIFAX EXPLOSION.—The terrible explosion which occurred at Halifax, N.S., on December 6, damaged many chemists' establishments. Mr. A. B. Evans, Vice-President of the National Drug and Chemical Company of Canada, Ltd., writing to his brother, Mr. W. P. Evans, chairman of Evans Sons Lescher & Webb, Ltd., encloses a letter from Mr. L. A. Miles, manager of the Halifax branch of the National Drug and Chemical Co., reporting that the premises were not severely damaged. Mr. Miles gives a graphic account of his personal experiences. The windows of the premises—a mile away from the scene of the explosion—were broken to atoms, three barrels of glass being swept up afterwards. Mr. Miles was cut on the head, one of the wounds bleeding freely. When Mr. Miles arrived at his home he found the windows and furniture broken. The severe snowstorm that started the day after the explosion added considerably to the miseries of the people who were sheltering in tents on the open spaces of the city.

Chemists' Defence Association.

AT a meeting of the directors of the Chemists' Defence Association on January 9, Mr. P. F. Rowsell, Exeter, was elected Chairman, and Mr. J. Keall, Wandsworth, Vice-Chairman, for the ensuing year. The following rules for the new Veterinary Section were passed:

1. Members of the C.D.A. who are, under Rule 19 of the Association's Rules, entitled to receive benefits from the Association shall, subject to the Rules of the Veterinary Section, be entitled to the benefits of the Section on payment of one of the subscriptions in the next Rule mentioned.
2. The subscriptions (in addition to the subscription payable as a member of the Association) to the Veterinary Section, for each shop, shall be as follows: 7*s.* 6*d.* to cover benefits up to 100*l.*; 10*s.* 6*d.* up to 200*l.*; 21*s.* up to 500*l.*
3. The Association shall, subject to the Rules of the Section, pay and make good to a member of the Section all sums for which the member shall become legally liable as compensation for the death of, or injury to, horses, cattle, donkeys, mules, sheep, pigs, goats, dogs, cats, tame rabbits, tame pigeons, tame cage birds, and other domestic animals belonging to a customer of the member, caused by errors committed by the member or any person in his employment in dispensing any medicine or selling (by retail, but not by wholesale) any article usually sold by chemists in any shop for which a subscription current at the time of such dispensing or sale has been paid up to the amount covered by such subscription. The decision of the Directors as to whether the transaction out of which any claim arises is a dispensing of medicine or a retail sale of any article usually sold by chemists, or whether any animal not named in this Rule is a domestic animal, shall be final and binding upon the member.
4. Subscriptions shall run for one year from the date of payment, and members whose subscriptions are more than one calendar month in arrear shall forfeit all benefits.
5. Rules 11, 12, 13, 14, 15, 16, and 25 of the Association's Rules shall apply to this Section, with the addition thereto of the sign and figures "100*l.*" before "200*l.*" where the latter occur therein.
6. The Directors reserve the right, after one year, to submit proposals to increase or reduce the subscriptions to this Section, or to discontinue the Section altogether.
7. No alteration shall be made in these Rules except at a General or Special Meeting of members of the Association.

About 250 members have intimated their intention to join the new Section. It was announced that the Association would defend members prosecuted under the Venereal Disease Act and under Defence of the Realm Regulations affecting pharmacy.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative

SUMMER-TIME.

The Home Secretary stated on January 17 that summer-time is to be put into force this year, but that the date when it shall commence has not yet been fixed.

VENEREAL DISEASE PROPHYLAXIS.

Mr. Macpherson stated in the House of Commons on January 22 that there is no Army Order authorising or forbidding the use of prophylactic medical measures against venereal disease.

FOOD-PRESERVATION.

The Parliamentary Secretary to the Ministry of Food informed Sir Richard Cooper on January 16 that a Committee of the Department of Scientific and Industrial Research is investigating the scientific methods of food-preservation.

PATENTS AND DESIGNS BILL.

The President of the Board of Trade informed Sir John Harmood-Banner on January 14 that the Patents and Designs Bill does not contemplate the extension of one year's life to patents which have already had an extended term.

BRITISH PETROLEUM.

Dr. Addison stated in the House of Commons on January 16 that a large quantity of fuel-oil is being produced in this country for the Admiralty, apart from the supplies from Scottish shale. The amount produced in November was twice that produced in September.

DENTISTRY COMMITTEE.

The Departmental Committee on Dentistry appointed by the Lord President of the Council sat on January 23 at the Privy Council offices. Mr. Benson Harries (President of the Newport Pharmacists' Association) attended, and gave evidence on behalf of the Chemists' Dental Society of Great Britain and Ireland, of which he has been Hon. General Secretary for the last seven years.

NATIONAL REGISTRATION (AMENDMENT) BILL.

This Bill extends and amends the National Registration Act, 1915, by requiring male persons who were under fifteen when the principal Act became law to register, and also persons who at the time of the passing of the principal Act were in the Forces and have since ceased to be members of any such Forces. Employers are required to see that the male persons they employ have registered under the Act.

MILITARY SERVICE BILL.

This Bill, which has been considered in the House of Commons during the week, repeals Sub-Section (3) of Section 3 of the Military Service Act, 1916, and provides for the cancellation of certificates of exemption from military service granted on occupational grounds. In the course of the debate there has been some plain speaking regarding the waste of man-power by the Army authorities. The Bill passed through the Committee stage on January 21.

EDUCATION (No. 2) BILL.

This Bill was introduced on January 14 by Mr. Herbert Fisher, President of the Board of Education. He explained that the administrative clauses have been modified, and changes have been made to meet the apprehensions of religious bodies so as not to prejudice the religious instruction given in voluntary schools. Section 11 provides that the local authority shall not require any young person to attend a continuation school on any day or part of a day exclusively set apart for religious observance by the religious body to which he belongs.

AVOIDING TAXATION.

Sir Richard Cooper on January 14 asked the Chancellor of the Exchequer if he is aware that the sale of enemy-owned businesses in this country has disclosed a system widely adopted by German firms, whereby the Treasury has been defrauded of sums due on account of income-tax and super-tax by importing part of the goods required for a finished article at exorbitant prices; if he is aware that under the taxation necessary after the war this fact imposes a serious disability on competing British goods; and if he will take steps that will ensure all foreign-owned businesses bearing the same financial responsibility after the war as will be required from all British-owned firms. Mr. Bonar Law in reply referred to the provisions of Section 31 of the Finance (No. 2) Act, 1915, which was enacted to safeguard the revenue in cases of the type mentioned.

Legal Reports.

Sale of Food and Drugs Acts.—At Stratford, on January 16, Camille Brooks, grocer, 73 Albert Road, Walthamstow, was fined 20*s*., including costs, for selling Epsom salt contaminated with arsenic and lead in greater quantity than allowed by the standard of the British Pharmacopœia.

Workmen's Compensation Act.—An appeal was heard in the Edinburgh Courts, on January 21, against a decision of the Sheriff-Substitute Stuart, Banff, in which 195*l*. was awarded as compensation for the death from blood-poisoning of a workman employed at a manure-factory. The Sheriff-Substitute held that the blood-poisoning was derived from the bonedust which deceased handled in the course of his employment. The Appeal Court, held, however, that there was no evidence that the man's death was caused by an injury by accident arising out of or in the course of his employment.

A Secretary's Notice.—In the Shoreditch County Court, on January 21, before Judge Graham, K.C., Mr. Robert William Batty, 90 Madrid Road, Barnes, sued the Milton Manufacturing Co., Ltd., 125 Bunhill Row, E.C., chemical and disinfectant manufacturers, to recover 45*l*. 16*s*. 8*d*., being two months' salary. There was an alternative claim for the same as damages. Mr. Batty had been engaged as the secretary of the company, and continued for some time in that position. In June 1917 he was discharged and handed a month's salary, but he contended that he was entitled to three months', and sued for the remaining two. When the case was called on it was stated that a settlement had been arrived at, to which his Honour assented. The terms were that the defendants were to pay 30*l*. and costs on the "B" scale. Judgment was entered accordingly.

Glass-tubing Dispute.—In the City of London Court on January 17, before his Honour Judge Atherley-Jones, K.C., Mr. Emil W. O'Brist, trading as E. Pond & Co., 17 Harp Lane, E.C., claimed ten guineas from Mr. H. F. Marlow, chemical glassblower, 28 Aylesbury Street, Clerkenwell, for 100 kilos. of white soft glass tubing (21 mm.). Defendant said the glass was unsuitable for the purpose for which it was intended. Plaintiff stated that no complaint was made for two months, and claims could only be entertained if made within ten days of the date of delivery. He offered to make a concession of 10 per cent. if the money was paid immediately. Defendant said that the glass was streaky and unworkable, and that the reason he did not complain about it before was that he had been ill. He thought a discount of 25 per cent. had been allowed. Judge Atherley-Jones, in giving judgment for plaintiff for 9*l*., and costs, said it is the rule of good commerce as well as good law that if a person does not get the article and quality ordered he should repudiate at once or intimate to the supplier that he would hold him responsible in damages.

Sale of Cocaine.—In the Dublin Southern Divisional Police Court, before Mr. Drury, on January 21, Mr. Robert Dobbs Seale, an assistant in the employment of Mr. John Evans, Ph.C., 49 Dawson Street, Dublin, was charged, under the Defence of the Realm Act, with having on various dates between January and August 1917 sold cocaine to Captain C. H. Elgee, an unauthorised person, and of having cocaine in his possession, he not being an authorised person. Mr. St. L. Devitt, B.L., who prosecuted, stated that Captain Elgee came from London to Dublin and became acquainted with the defendant, whom he asked to get some cocaine for him. In the month of June the defendant got 4 oz. from Boileau & Boyd, Ltd., and in August a further 4 oz. On each occasion he telephoned from Mr. Evans' shop, and Boileau & Boyd supplied it believing it was going to an authorised person. As a matter of fact, Mr. Evans knew nothing about the transactions. At intervals between April and August the defendant also received quantities of cocaine, amounting in all to 4 oz., from the Apothecaries' Hall. He sent the cocaine to Captain Elgee in London. Captain Elgee died last September from cocaine-poisoning, and in his cheque-book were found counterfoils of three cheques payable to the defendant for sums amounting to 34*l*. Inspector Barrett went to the defendant and questioned him about the matter, and the defendant made a statement which he signed. Mr. Devitt was proceeding to produce evidence when Mr. P. M. Scales, solicitor, who appeared for defendant, said he admitted the facts as stated by Mr. Devitt. Captain Elgee had shown a doctor's prescription to the defendant, who, in consequence, supplied him with the cocaine in good faith. He asked the Magistrate to deal leniently with his client. Mr. Drury fined the defendant 10*l*., and costs.

Sodium-benzoate Contract.—Mr. Justice Bailhache, sitting without a jury in the King's Bench Division on January 18, heard an action brought by Vitantonio Picerno, Clapham Junction, London, S.W., to recover 58*l*. 16*s*., balance of account alleged to be due from Baiss Bros. & Co., Ltd., wholesale druggists, Bermondsey, in respect of the supply of 3 cwt. of soda benzoate. Defendants admitted the claim of balance of account, but set up a counterclaim that the goods supplied were not up to the sample submitted to them, and asked for damages amounting to the balance of claim for alleged breach of contract. The claim being admitted, the onus was on the defendants to prove their counterclaim, and Mr. Phillips, for defendants, stated that on sample his clients bought 3 cwt. of sodium benzoate at 19*s*. 6*d*. a lb. The sample was up to British Pharmacopœia standard, but on receiving the bulk and submitting it to analysis they found it was not of that standard, as it contained a percentage of benzoic acid. They communicated with the plaintiff, who took the goods back, saying he had never had any complaint of the same article supplied to other customers before this. Evidence was given by Mr. John Puddy, a director, and Mr. Sydney S. Baiss, managing director of the defendants' company. Plaintiff accepted the return of the goods and returned their cheque for payment, but the defendant company had to buy in a higher-priced market, which, they said, justified them in resisting the payment of balance of account. They bought from the plaintiff at 19*s*. 6*d*., but had to repurchase on the higher-priced market at 23*s*., and this they set off against the balance of account. Mr. H. A. Law, B.Sc., defendants' analyst, and Mr. Percy Arthur Self, of Harrison & Self, Chancery Lane, said the chemical was not up to B.P. standard. After hearing plaintiff's analyst, his Lordship found that the defendants had proved their counterclaim, and entered judgment for them, with costs. The plaintiff was entitled to judgment on his undisputed claim.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

"JAS" WINE CO., LTD. (P.C.).—Capital 1,000*l*. Objects: To take over the business carried on by J. A. Streek at 333 Edgware Road, W., to produce and deal in a medicated tonic-wine known as "Jas," etc.

WEST RIDING CHEMICAL CO., LTD. (P.C.).—Capital 10,000*l*. Objects: To take over the business of manufacturing chemists carried on at Thornes, near Wakefield, as "Henry Ellison & Co.," also to carry on the business of chemical engineers, etc.

WILL & CO., LTD. (P.C.).—Capital 1,000*l*. Objects: To adopt an agreement with W. Belcher and to carry on the business of chemists, druggists, patent-medicine manufacturers, oil and colour merchants, dealers in photographic apparatus and materials, etc. R.O., 43 Leicester Square, London, W.C.

PARKE'S DRUG STORES, LTD.—The report of the directors for the year ended September 30, 1917, to be presented at the twenty-third annual general meeting, to be held at Room 174, Winchester House, Broad Street, London, E.C., on Wednesday, January 30, at 3 P.M., states that the sum of 433*l*. 17*s*. 10*d*. required for the depreciation of leases has been met as usual out of revenue, as well as 786*l*. 13*s*. 7*d*. expended on repairs and renewals. The directors have appropriated out of the profits of the year 420*l*. 17*s*. 10*d*. to the fixture depreciation and reserve fund, and have also added the sum of 250*l*. to the stock reserve fund. After allowing for the above, the available net balance amounted to 6,446*l*. 3*s*. 7*d*., out of which has been paid the interim dividend on the preference and ordinary shares, both at the rate of 6 per cent. per annum. The balance remaining is 4,238*l*. 2*s*. 4*d*., and from this the final dividend on preference shares for the year, amounting to 1,190*l*. 16*s*. 5*d*., was paid on October 20 last; and it is now recommended that a final dividend of 4½ per cent., free of income-tax, be paid on the ordinary shares for the last half-year, making with the interim dividend of 3 per cent. already paid, 7½ per cent. for the year, and that a sum of 500*l*. be transferred to the general reserve fund, leaving a balance of 639*l*. 19*s*. 5*d*. to be carried forward. Upon passing the present accounts and the adoption of the report, the reserve funds will stand at 17,808*l*. 1*s*. 1*d*. The retiring directors are Mr. P. Warnford-Davis, J.P., and Mr. Joseph F. Forster, who, being eligible, offer themselves for re-election.

Births.

NICHOLSON.—At Chertsey, on January 20, the wife of Agnew Nicholson, pharmacist, of a son.

SMITH.—At 47 High Street, Gosport, on January 18, the wife of Ernest H. Smith, chemist and druggist, of a son.

SPENCE.—At 5 Meadow Place, Edinburgh, on January 12, the wife of Lieutenant R. C. W. Spence, R.A.M.C., L.R.C.P.E., on active service (late of Spence's Drug Stores), of twin sons.

Marriages.

EARDLEY—TURNER.—At the Parish Church, Aston, on January 19, by the Rev. W. H. Brooke, Lieutenant Harold Icke Eardley, R.N.V.R., only son of Mr. J. F. Eardley, Ph.C., Sheffield, and Lindrick Common, to Jessie, second daughter of Mr. E. Turner, The Grange, Aston.

WHITE—CHAPMAN.—At St. John's, Putney, on January 15, by the Rev. Canon Rivington, M.A., Lieutenant Jack White, A.S.C. (M.T.), elder son of Mr. Edmund White, B.Sc., F.I.C., President of the Pharmaceutical Society of Great Britain, Putney Common, to Esmé Rougier, third daughter of Mr. George H. Chapman, Woodborough Lodge, Putney.

Deaths.

COLEMAN.—At Ingle Bank, Brundall, recently, Mr. William Juby Coleman, chemist and druggist, aged eighty-four. Mr. Coleman began business as a manufacturing chemist at Bury St. Edmunds. Later he removed to London, where he did a considerable trade, especially during the Franco-German war, as an importer of meat-extracts. In the 'seventies he opened a business in Norwich, and shortly after commenced the manufacture of the meat-and-malt wine that in 1889 was re-named "Wincarnis." The concern had meanwhile been floated as a limited company, and Mr. Coleman was its first managing director. About 500 hands are employed in the process of manufacture, and evidence was given before the Select Committee on Patent Medicines that the Excise duties then paid by the company averaged over 25,000*l.*, and the cost of advertising 50,000*l.* per annum (*C. & D.*, March 29, 1913). Mr. Coleman, who was a clever chemist full of brilliant ideas, terminated his connection with the company about seven years ago. He was twice married, and is survived by a son. His first wife was a sister of the late Mr. Joseph de Carle Smith, chemist and druggist (Smith & Sons, chemists and wholesale druggists, Magdalen Street, Norwich).

CRAFT.—At Oakleigh, Earley, Reading, on January 6, Mr. James Craft, chemist and druggist (James Craft & Son), aged eighty-four.

DUNCAN.—At 32 Gibson Street, Hillhead, Glasgow, on January 11, Mr. Joseph Duncan, Ph.C., aged seventy-four.

FOX.—Recently, after a short illness, Mr. John Dawson Fox (John D. Fox & Sons, wholesale druggists, Bingley), aged sixty-eight. Mr. Fox, whose success in business was due to his own efforts, was also in repute as a local preacher and a writer of verse.

FRENCH.— At 15 North Terrace, Seaham Harbour, on January 12, Mr. Frederick Alexander French, chemist and druggist, aged forty.

SELLON.—At 35 Queen's Mansions, Westminster, on January 18, Mr. John Scudamore Sellon, aged eighty-one. The late Mr. Sellon at an early age joined the house of Johnson, Matthey & Co., assayers and refiners to the Bank of England and Royal Mint, metallurgists, etc., founded by his uncle, Percival Norton Johnson, in 1822. He played a prominent part in the researches and industrial developments connected with the platinum and other groups of rarer metals with which the name of his firm is associated.

WHIFFEN.—At The Clock House, Wimbledon Common, on January 19, Julia Maria, the beloved wife of Mr. W. George Whiffen (Whiffen & Sons, Ltd., Battersea).

Died on Service.

PARKHOUSE.—Private Ronald Parkhouse, Worcestershire Regiment, is reported as having been killed on service. Private Parkhouse served his apprenticeship with Mr. James Forbes, chemist and druggist, Ocklynge Parade, Eastbourne. He had been missing since November 5, 1916.

TULLY.—Private Ralph Tully, Royal Scots, was lost at sea, by enemy action, on December 30, 1917. In civil life he was with Pinkerton, Gibson & Co., manufacturing chemists, Edinburgh.

Personalities.

MR. HENRY MEYNELL, chemist and druggist, Tenterden, has been re-elected Hon. Secretary and Treasurer of the Tenterden Tradesmen's Association.

MR. ROLAND PRINCE, Ph.C., Belgrave Road, Longton, has been appointed Assistant Director of Ceremonies of the Etruscan Lodge of Freemasons, of which he is a Past Master.

BRO. ALFRED COLLINS, P.S.W., chemist and druggist, Corn Market, Pontefract, was installed as Worshipful Master of the St. Oswald Lodge of Freemasons at the Masonic Hall, Ropergate, on January 16.

AYRTON, SAUNDERS & CO., LTD., Liverpool, were represented at the first annual meeting of the Central Association of Welfare Workers, held recently at the College of Economics, London, by Miss Wilkinson.

MISS KATHERINE MAY KING, chemist and druggist, dispenser at the Stanley Hospital, Liverpool, has been appointed pharmacist to the Leicester Royal Infirmary, to fill the vacancy caused by the death of Mr. J. W. Cross.

MR. H. CORBETT MEYRICK, Ph.C. (Ireland) and chemist and druggist (Great Britain), who has left the Aberdare branch of Boots, Ltd., for a position in the branch at 289 Old Kent Road, London, S.E., was, on leaving Aberdare, presented with a gold fountain-pen by the staff.

Business Changes.

THE WEST HAM CHEMICAL WORKS, LTD., have removed their City office to 8 King William Street, London, E.C. 4.

THE ADDRESS of the Society of Chemical Industry is now Central House, 46 and 47 Finsbury Square, London, E.C. 2.

MR. ROBART CROFTS, chemist and druggist, Canterbury, has removed his business from 1 The Parade to 27 St. George's Street.

THE UNION OF THE SIBERIAN CO-OPERATIVE ASSOCIATIONS, LTD., have resolved to change the name of the company to the Russian Commercial Company Sibunion, Ltd. The London offices have been removed to 123, 125, and 127 Cannon Street, E.C. 4.

MR. J. C. BROWN, formerly vice-president and treasurer of B. Brown & Bro., Inc., 237 Water Street, New York City, has withdrawn from that firm, and is now established at 15 Park Row, New York City, under the firm name of J. C. Brown, Inc., and will specialise in chemicals and drugs.

MR. PIO ANASTASI informs us that he has retired from the business of Pio Anastasi & Brother, general merchants and commission merchants, Malta (which firm is being wound up), and has established himself as a general merchant on his own account at the temporary address at 281 Strada Reale, Valletta, Malta.

M. H. STILES & SON, chemists, Frenchgate, Doncaster, have dissolved partnership by mutual consent as from December 31, 1917, and the business will be carried on under the same firm-name by Mr. Henry William Stiles. The retiring partner, Mr. Matthew Henry Stiles, Ph.C., obtained the Major qualification in July 1868, and eleven years later took a share in the business from which he now severs his connection. In 1887 he became the sole proprietor, and in 1908 took his eldest son into partnership. The business was established in 1832; the title-deeds of the property date back to 1678, and are drawn up in Latin, following the practice of the times. Mr. M. H. Stiles was the first President of the Doncaster and District Association of Pharmacists (of which Mr. H. W. Stiles is now Secretary), and has filled several public offices with much acceptance.

THE BRITISH PHARMACEUTICAL CODEX ADDENDUM is now being brought to the notice of the public, judging by a number of belated paragraphs that have appeared in the London daily papers this week. The officials appear still unmindful of the harm that this egregious work has already done to the drug-trade.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

London.—The Insurance Committee met at the County Hall, Spring Gardens, S.W., on January 24, when it was reported that the Commissioners had authorised the payment of 2,400*l.* to the Panel Committee and 2,235*l.* to the Pharmaceutical Committee for administrative expenses for 1917, subject in the latter case to the proportional reduction from chemists' accounts in accordance with Article 8 (1) of the Medical Benefit Regulations, 1916. The Pharmaceutical Service Sub-Committee reported on several complaints against chemists. Three were cases of inaccurate dispensing, and the report recommended that in two cases the chemist should be censured and in the other cautioned. In another case the chemist had been unable to supply cod-liver oil and malt, and, when this was reported to the Sub-Committee, had called on the patient and reproved her for her action. The Sub-Committee highly reprobated such conduct on the part of the chemist. In a fourth case the report recommended that the pharmacist be severely censured for refusing to dispense "Rep. mist." prescriptions for two insured persons and ignoring the communications of the Committee. Other complaints against chemists were disproved. Five firms have resigned from the chemists' panel, and one firm has been added thereto.

SCOTLAND.

Dundee.—The Insurance Committee, having in hand a surplus of funds for administrative purposes, decided at its last meeting to pay the Clerk a bonus of 40*l.*, in addition to his salary of 400*l.* The Clerk (Mr. Duncan) reported that the number of insured persons in Dundee at the beginning of 1915 totalled 80,785—40,764 men and 40,021 women. At the beginning of 1918 the total insured population in the city was 73,614—31,271 men and 42,343 women. They could imagine where the most of the decrease of 9,493 men had gone. The net decrease compared with 1915 was 7,171. The Clerk also stated that the doctors under the division of the Practitioners' Fund had received 7*s.* 9*d.*, compared with 7*s.* 6½*d.* for 1915. The balances due to chemists on the accounts for 1916 are still unpaid. The resignation of Mr. R. M. Lindsay, Albert Street, Dundee, from the chemists' panel was announced.

WALES.

Newport (Mon.).—At the meeting of the Insurance Committee on January 16, it was reported that the Panel Committee had further considered the case of a doctor the price of whose prescriptions had been found to average more than 6*d.* per annum per insured person, and had recommended that no surcharge be made, but that the doctor be cautioned. The Welsh Commissioners had no objection to the course suggested, and the report was adopted.

Note.

CHEMIST REMOVED FROM PANEL.—The National Health Insurance Commission (Scotland), following on a report by a special Inquiry Committee, consisting of Sheriff Wilson, K.C., Chairman; ex-Provost John Birnie, Inverness, Chairman of Inverness Burgh Insurance Committee; and Mr. John J. Forbes, chemist, Perth, a member of the Pharmaceutical Standing Committee (Scotland), have removed from the panel of chemists of three Insurance Committees a chemist carrying on business in Aberdeen. The offence with which he was charged was dispensing 16 oz. of emulsio olei morrhuæ cum hypophosphitibus, B.P.C., instead of 20 oz., and also omitting from the emulsion the yolk of egg and part of the cod-liver oil and hypophosphites.

Wills.

MR. HENRY HUTCHINS FRENCH, Florenceville, Grove Road, Sutton, Surrey, senior partner of French & Plucknett, 7 Mincing Lane, London, E.C., who died on October 29, left estate valued at 112,902*l.*, the net personalty being 111,116*l.* 14*s.* 2*d.*

MR. FREDERICK JOSEPH HARRISON, chemist and druggist, 29 Fisherton Street, Salisbury, who died on October 4, left estate of the gross value of 10,739*l.* 7*s.* 3*d.*, of which 4,232*l.* 11*s.* 9*d.* is net personalty. The testator left his estate to his children—Marjorie, Frederick, and Josephine Emily—in equal shares.

Trade Notes.

A. S. LLOYD'S EUXESIS.—R. Hovenden & Sons, Ltd., have advanced the price of this shaving-paste to 10*s.* 6*d.* per dozen.

DR. HOGARTH'S CHEST-EXPANDERS are the special line referred to in the advertisement of B. W. Hair & Son, wholesale druggists, 104 High Holborn, London, W.C. 1.

LORIMER'S SANATOGEN has been advanced in price since the beginning of the year owing to the scarcity of milk. The prices are given in Mr. John Lorimer's advertisement in this issue.

TUBELETTE CREAM.—The Anglo-American Pharmaceutical Co., Ltd., 59 Dingwall Road, East Croydon, announce an increase in the price of "Tubelette" menthol and wintergreen cream. The 1*s.* size has been advanced to 1*s.* 6*d.* and the 2*s.* 6*d.* size to 3*s.* retail.

PULV. GLYCYRRHIZÆ Co. prepared according to a War Emergency Formula is referred to in the advertisement in this issue of Stafford Allen & Sons, Ltd., Cowper Street, Finsbury, London, E.C. Exporters and wholesale buyers are asked to send for samples and prices.

OPPENHEIMER, SON & CO., LTD., 179 Queen Victoria Street, London, E.C. 4, have decided to use eucaine in place of cocaine in several of their preparations, such as the Neboline Compound No. 21. This step has been taken in consequence of the misapprehension that existed regarding the amount of cocaine present. An advertisement in this issue refers to the matter.

LONDON CHEMICAL INDUSTRY.—A number of delegates from the Chamber of Commerce of Serbia recently, at the invitation of the Board of Trade, visited the chemical-works of W. J. Bush & Co., Ltd., Ash Grove, Hackney, London, E. 8. Mr. J. M. Bush, chairman of the company, conducted the twelve delegates over the works and showed in operation the distillation of essential oils and the manufacture of synthetic chemicals.

"THE SCIENTISTS' REFERENCE BOOK AND DIARY."—James Woolley, Sons & Co., Ltd., Victoria Bridge, Manchester, have published the 1918 edition of the "Scientists' Reference Book and Diary." This work is now well known, as it has been published for twenty years. It appears in brown calfskin of pocket shape (5¼ × 3), and contain two portions, one the Diary proper, and the other the reference book. Among the data contained in the last-named portion are particulars about the Immature Spirit Act, the atomic weights and physical constants of the elements, factors for analysis, chemical composition of food, vegetable cultivation, and particulars about the Department of Scientific and Industrial Research. The book sells at 2*s.* 6*d.*

BOVRIL BONUS PICTURES.—Bovril, Ltd., 152-166 Old Street, London, E.C., have sent for our inspection the pictures which are offered to the public under the bonus scheme connected with bovril sold up to June 30. The chief picture (30 in. by 40 in.) is entitled "And they Kept the Home Fires Burning," and represents the return of a soldier to his home, where a family welcome awaits him. The two smaller pictures are "In the Heart of the Trossachs" (29 in. by 23 in.) and "The New Shepherd" (30 in. by 22 in.). Chemists will be acquainted in general with the picture scheme, which has been in operation for some years. Each bottle, tin, or jar of bovril sold to the trade up to June 30 carries with it a coupon, and a number of these must be collected by the public who desire to possess the pictures referred to. The large picture requires forty-two units and each of the small ones twenty-four units. These particulars are given on a circular which should be brought to the notice of customers. The pictures are beautifully reproduced and worth a place in any home.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

243/23. "Army" sprays, to kill flies.
243/32. Paul Gauge's Anti-bilious Elixir.
243/32. "Balsonic" ointment.
243/32. "Curcol" ointment.
240/64. "Mollevac."
243/32. "Samaritan" ointment.
240/64. "Utosan."
244/41. Delafield's Hæmaloxylon.
237/72. Barton's Brighton hair-restorer.

A SUITABLE PUTTY for the joints of silica apparatus consists of small asbestos 40 parts, fibre asbestos 8 parts, whiting 10 parts, with a little tallow and boiled linseed oil.

Observations and Reflections

By Xrayser II.

Jay Mack's Startling Proposition

that the Council should resign in a body gave me a momentary thrill of delight, but, alas! consideration came quickly upon its heels with the question, What would become of the Society if they did? The Charter provides that elections shall only take place on the occasion of a general meeting, and a special general meeting would have to be held for for the purpose. But such meetings can be convened by the Council only, and there would be no Council to do it. Moreover the Charter provides that there shall always be a Council to direct and manage the Society, which obviously there would not be if the Council had committed suicide *en bloc.* What would become of our property? No, no, Jay Mack; your dream is too roseate for realisation. I am afraid the idea of revolutionising of the Council under our present legal system of re-electing only one-third of it yearly is equally visionary, but what else can we hope for?

The Concluding Portion of Your Article on Education

brings out one fact which had not previously struck me. You propose that the first part of the qualifying examination should be mainly or altogether theoretical, the second part mainly technical, that is to say practical. Is not this a putting of the cart before the horse? It seems to be inevitable under the scheme you outline, but surely it is not the natural order. It is too much like the old method of learning languages—that of mastering the grammar before we begin to read. As the first part would be prepared for, generally speaking, while the student was actually serving in a pharmacy the anomaly would perhaps be more apparent than real in most cases, but what guarantee would there really be that sufficient practical knowledge had been acquired? We know something of the value of certificates of having had three years' dispensing experience under the present system. After all, it is this practical knowledge that is of the first importance, and theoretical knowledge is only of use when it has been embodied in experience.

Mr. Woolley's Review

of the Venereal Disease Act, read before the North London Association at the Progressive Pharmacy Club, is of permanent value, and will, I hope, be reprinted in the same handy form as his previous and equally important papers on "Enemy Patents," "War Regulations Affecting Pharmacy," and the "Cocaine and Opium Regulation." None of these recent legislative innovations has aroused quite the same feeling of unmerited injury as the Venereal Disease Act, though some of them may interfere as seriously with our business. But our resentment in this case is justified by the fact that in it the medical profession has taken advantage of a widespread popular panic to deal a blow at our legitimate business and bring odium upon entirely innocent practices. I admit—nobody knows better than I—that our record with regard to the treatment of these diseases is not without blemish, but that occasion should be taken from the misdemeanours of a few individuals here and there to discredit the whole craft is intolerable. The leaflets referred to by Mr. Woolley in which druggists are bracketed with quacks and other unscrupulous persons as a danger to the public is an insult it is impossible to submit to in silence. Apart from this, the Act, as Mr. Woolley showed, is open to the strongest criticism on the grounds both of justice and of common sense. A more flagrant attempt to exploit a sudden alarm in the interest of a privileged class than the Bill as first introduced it would be difficult to find, and even as it stands the Act is so ambiguous in meaning, so partial in incidence, and capable of being so unfairly used as to give it an unenviable prominence even in the ever-lengthening chapter of "scare" legislation.

The Little Book of Verse

by Mr. Samuel Wyatt which you noticed sympathetically the other week has not the least tincture of pharmacy in it. In only one of the pieces it contains is there the remotest allusion to anything connected with the author's business, and it is refreshing to meet with anyone so entirely free from the preoccupations of an exacting business like ours. Mr. Wyatt, moreover, shows none of that pessimistic, not to say cynical, spirit which is found so often in the chemists of fiction; he is cheerful, charitable, hopeful, amiable throughout the book, and holds with something approaching to enthusiasm the belief that, after all, things do in the main work together for good. This is perhaps due to natural temperament, but it is a proof that the conditions of pharmacy even in these distressful days do not necessarily sour the temper or cast a gloom over the spirit. From a literary point of view these poems do not amount to much, but if they are lacking in art they are admirable in tone, and in some instances they express the most amiable sentiments with a certain felicity—"Nature's Secrets," for instance, and "When Love Lights up the Way" have real charm, and "A Millennial Song" is one of the happiest paraphrases of a passage in old Hebrew prophecy that I remember to have seen lately; it would serve well as a hymn.

Russian Liquorice,

both the root and the inspissated juice, have long been known in England, and it is therefore rather surprising to read in a German paper of its export from the Caspian area as having only been carried on "during the last few years." So long ago as 1558 Anthony Jenkinson, one of the pioneers of our intercourse with Russia, remarked upon "the abundance of Licoris, whose root runneth within the ground like a vine," all along the Lower Volga, and trade was the chief object of his travels. The fact that, as we are told, liquorice is now being exported *viâ* Archangel and Vladivostok recalls one of the most notable chapters in our commercial history. In the sixteenth century our trade with Russia was, thanks to "the great Turk," as he was then styled, carried on by the North-East route. Even some goods from China, conveyed overland by way of Bokhara to Astrakhan, were carried thence up the Volga and down the Dwina to the port in the White Sea for shipment to us. Virtually all South Russian commodities came this way.

New Books.

Friend, J. N. *The Chemistry of Linseed Oil.* 7½ in. × 4¾ in. Pp. 96. 2*s.* 6*d.* (London: Gurney & Jackson, 33 Paternoster Row, E.C.) [This is one of a series of chemical monographs which this firm is bringing out under the editorship of Dr. A. C. Cumming. Short chapters are devoted to the manufacture of linseed oil, its chief constituents, properties and reactions, chemistry, and polymerised oil. References are given to the works where amplification of the various statements may be consulted.]

Kingzett, C. T. *Chemistry for Beginners and Schoolboys.* 7 in. × 4¼ in. Pp. 150. Second edition. 2*s.* 6*d.* (London: Baillière, Tindall & Cox.) [The first edition of this work, which was brought out last year, contained just over a hundred pages, whereas the present contains half as many again. The book appears to have been re-written throughout, and a good deal of thought expended upon the descriptions, so that there shall be conveyed accurate but simple descriptions of the subjects dealt with. Part I. deals with physics, Part II. with electricity, light, heat, etc., Part III. with chemical compounds, while Part IV. is a combined dictionary and index. It is a useful book to place before beginners, as the information is given in a manner calculated to whet the appetite for a more complete acquaintance with the fascinating science of chemistry.]

GERMANY, like every other nation, has the Government she deserves, and she has brought her deserts upon her own head by her flagrant disregard of the nobler instincts of our common humanity.—*Sir T. E. Thorpe.*

SCIENCE MADE EASY.

Chemistry for Beginners & Schoolboys

SECOND EDITION.

REVISED AND ENLARGED,

BY

C. T. KINGZETT, F.I.C., F.C.S.,

Past Vice-President, Society Public Analysts, &c.

No better book than this could be used in primary and public schools and by beginners generally for acquiring a knowledge of the essentials of chemistry and physics.

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S.V.R. — S.V.M.

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Editorial Articles.

Cinchona and Quinine.

IN July next the famous agreement between the Java cinchona-planters and quinine-makers lapses, and arguments for its renewal are already being put forward. The Java planters are satisfied that the agreement has raised prices for bark, and, on the whole, seem to be pleased with its working, though there are complaints that some firms have shipped bark in excess of the quantities allowed them. There have been considerable changes in the areas left under cinchona in Java, and it appears to be considered that if the agreement is renewed there will have to be stronger control of shipments and some adjustment as to the area to be kept under cinchona. Further light on the prosperity of the cinchona-planters is shown in the last annual report of the Soekaboemi Agricultural Society, in the course of which it is stated that the weather in 1916 was, on the whole, favourable, but there was more disease than in 1915. Though shipping was difficult cinchona was somehow disposed of, and the accumulations of past years have almost disappeared from the warehouses. Comparatively little pharmaceutical bark was sold, the demand for bark being chiefly from the quinine-makers. The Society for the futherance of the interests of cinchona-planters showed useful activity, and, among other things, assisted the planters in a dispute with the Bandoeng factory over analyses of bark. It is common knowledge that since the war the Dutch quinine-makers have enjoyed unexampled prosperity in spite of many difficulties connected with manufacture and delivery. The Java quinine-factory in particular has been a most profitable undertaking in recent years, and in 1916 it surpassed itself by paying a dividend of 93 per cent. to its ordinary shareholders. The company's report, of which some details have just become public, states that during 1916 145,000 kilos. of quinine was received as bark, of which at the end of the year 45,030 kilos., valued at 385,822fl., remained unworked, as against 52,796 kilos., worth 289,544fl., in the previous year. Throughout the year the prices of both bark and quinine remained high, though subject to considerable fluctuations. Working-costs were much higher than in 1915; thus chemicals cost 233,470fl., against 120,263fl.; packing-materials, 142,303fl., against 53,694fl.; and other factory requisites, 41,244fl., against 18,907fl. Work had to be carried on night and day, entailing heavier expenditure for salaries and bonuses, and on power, light, repairs, and renewals. Insurance of freight was also naturally a heavy item, especially towards the end of the year, when deliveries to Europe became slow, uncertain, and difficult. The stock of quinine at the beginning of 1916 was valued at 291,795fl., that produced during the year at 2,907,444fl., and that unsold on December 31, 1916, at 563,399fl. Sales realised a gross sum of 4,653,196fl., giving a gross profit of 1,369,597fl., compared with 837,313fl. in 1915. After setting aside special reserves of 40,000fl. and 650,000fl. for the payment of income and other taxes, duties on war profits, etc., and allowing 106,170fl. for depreciation, there remains a net profit of 883,085fl. available for the ordinary reserve fund, bonuses to directors, dividends on shares, etc. Of this no less than 651,313fl. is allocated to the ordinary shares, making, on a capital of 700,000fl. invested in these shares, a dividend of 93 per cent. Interim dividends of 50 and 16 per cent. having already been paid on these shares, the present distribution will be 27 per cent.

Profits on Proprietaries.

THE discussion regarding the profits on proprietaries which has been carried on in our correspondence columns during the past two months appears to furnish proof that the trade as a whole is far from satisfied with the protected profit now allowed on many proprietary preparations, and the movement ought not to cease without some practical result. The correspondence was begun by Mr. Jackson, Hereford, for the purpose of showing that the minimum discount allowed on P.A.T.A. articles does not provide a living profit, and retailers all over the country have given their views on the matter. It has now been taken up by the local Associations, and when we find representative Associations like those of Manchester, Leeds, North London, and Merthyr discussing the question we may expect that something effective will result. Mr. Jackson's original question was "What does it profit a man who sells 1,000*l.* worth of patents at P.A.T.A. prices?" but the discussion has not been confined to proprietary remedies or to those bearing an Inland Revenue stamp. The whole range of proprietary specialities is included, and there are, in addition to so-called "patents," numberless unstamped proprietaries on the market, hundreds of which are on the P.A.T.A. list. These are all quoted net by the sundries houses, and sold at net monthly terms. Were we to cut these out of the business, we would certainly knock off from 50 to 75 per cent. of the average chemist's returns, and that is as impracticable as it is undesirable. A point that ought to be investigated is that brought out in our last week's issue by "Nemo"—namely, the ratio between the amount of business done in proprietaries and the rest of the trade. No one has attempted to make this clear, and yet it should not be a difficult matter. Most pharmacists now buy sundries on net terms, and usually separate invoices for these are supplied. Cannot some of our correspondents furnish the necessary figures? "J. F. G." is satisfied with 200*l.* gross profit on a 1,200*l.* return. Assuming he sells that quantity of proprietaries and gets this profit, what relation does it bear to the rest of his business, and what profit does the latter yield? For it is obvious that much larger profit must be obtained on the next 1,200*l.* if "J. F. G." is to pay his expenses and obtain a fair living from his business. Such facts as these must be supplied before there can be clear thinking on this question. A further example of what we regard as loose thinking was furnished by the letter of "Scotch Chemist." With his proposal to invoice proprietaries at retail face-value there need be no quarrel, always provided the discount is sufficient. He suggests 20 per cent. profit to the retailer, but, the expenses of the average retailer being by common consent not less than 20 per cent., it follows that the chemist will have nothing left for his trouble. "Scotch Chemist" assumes that if a wholesaler gets 30 per cent. and allows the retailer 20 per cent. the former gets for his trouble the 10 per cent. which the P.A.T.A. terms allow him. True, he gets 10 per cent., but he gets a good deal more. At 30 per cent. discount the wholesaler buys 100*l.* worth of goods for 70*l.*, and according to "Scotch Chemist's" proposal he sells them at 80*l.* Obviously his profit on his investment is close on 15 per cent. and on his returns 12½ per cent. This may or may not be a large allowance for the middleman, but at any rate it is a great deal more than the manufacturer is supposed to allow on the P.A.T.A. terms. If the wholesaler received 33⅓ per cent. on face-value, and allowed 25 per cent. to the retailer, it would not be so excessive, but he would still get 12½ per cent. on his outlay and 11 per cent. on his returns. Any higher profit than this would tend to make the manufacturer do business direct with the retailer and eliminate the middleman altogether. It is interesting to observe that no agreement has yet been reached as to the cost of doing business. The statements submitted by "MacJ." appear to show that the expense of running a business may be from 15 to 25 per cent., according to the turnover. "Carron" seems to think that he can do 1,500*l.* of business on a 10-per-cent. basis, but "Carron" has not produced his figures to show how this is done. Solid facts are wanted, and, the year having just closed, many chemists will have arrived at their annual balance, so that now is the time to get at real costs. Let "Carron" and a few others send us their figures, and they will help to clear up this point. If we may reason from the practice in other trades—as, for example, the grocers'—it would be safe to conclude that 15 per cent. would be the irreducible minimum for pharmacists doing 1,000*l.* to 2,000*l.* a year. By common consent a grocer's expenses work out at about 12½ per cent. of his turnover, and we should be much surprised if any pharmacy doing less than 2,000*l.* a year ever touched this figure. If this is near the truth it follows that anything sold in the pharmacy at less than 12½ to 15 per cent. gross profit is dead loss, and the pharmacist would consequently be better off without this class of business altogether. Mr. Wolff and some other writers argue that proprietaries should carry only a small profit because there is little trouble in handling them. There would be more in this argument if there were a constant stream of purchasers of these goods, but business is not done in that way in the ordinary pharmacy. We must take conditions as they actually exist in 75 per cent. of our shops, and not base our arguments on conditions that exist only in the imagination. It is true that it may take only half a minute to sell a box of somebody's pills, but what is to pay the salary of even a girl assistant during the time she is not selling goods? It would be impracticable to fix a profit on such a basis, for one speciality may sell quickly in North London and be almost stagnant at Hereford, and *vice versa.* If only a bare gross profit is shown on these lines, an excess profit must be put on other articles, which Mr. Crewdson (Mr. Nathan) warned us against. Every individual article ought to pay its own way and bear its proper share of the expenses of the business, and this can best be determined on the basis of price. The correspondence has demonstrated clearly that the time has now come when all proprietaries should be sold at face-value. We are fully in sympathy with Mr. Saunders on this point, and if the reform can be carried through it will be largely due to Mr. Saunders' efforts over a period of years. The change could be made at the present time since prices all round are in a state of flux, and practically the only prices unaltered are those of proprietary medicines not bearing a Government stamp. A considerable number of specialities are already sold at face-value, and this is an opportunity which will never recur for bringing other goods into line and establishing more satisfactory protected profits. On the question of profit it ought to be possible to come to an agreement. Our correspondents, including Mr. Jackson, are now agreed that 20 per cent. on sales is sufficient profit on foods. Mr. J. W. Todd made the suggestion that advertised medicines should show a profit on sales of 25 to 30 per cent. and toilet and luxury articles 33⅓ to 40 per cent. The discrimination is wise, and the proposal seems to be practicable, for there are on the market many medical and toilet specialities which yield the profits mentioned and sell readily. At the same time we doubt whether it would be advantageous to show such a large profit as 40 per cent. on all proprietaries, for it must be borne in mind that middlemen must work at a profit. Mr. Nathan's proposal that all the Associations should consider the subject and then send delegates to a meeting to decide the question is worth attention, while the Merthyr Association's idea of calling upon a professional auditor to furnish a report on profits might also be discussed. We have the impression that an earnest effort on the part of the P.A.T.A itself might bring about a good result, but some retailers have expressed the opinion that the P.A.T.A. is too much under the control of the manufacturers and the wholesalers, although it is well known that it was founded on a trinity of interests. The Associations, through the Local Associations Executive or through delegates specially appointed, could, however, take up the question on their

own account. Failing any organised effort, every pharmacist could follow Mr. Jackson's suggestion of separating the sheep from the goats. Many proprietaries are very profitable and popular; let chemists devote their time to pushing the sale of these, and the natural result is bound to follow—the unprofitable specialities will come into line, will be relegated to the grocers and stores, or will disappear from the market. This is the logical result of any combined action, and not even P.A.T.A. proprietaries would be able to resist the movement. But the movement must be a united one.

Insurance Dispensing Difficulties.

IV. Methylated Preparations.

In the main conditions of agreement for the supply of drugs and appliances by panel chemists, it is now provided that prescriptions for liniments or other compounds in the manufacture of which methylated spirit may be used are to be interpreted by the chemist as indicating the methylated preparation unless the prescription specifically indicates the contrary intention on the part of the doctor—*e.g.*, by the addition of "B.P." after the name where the British Pharmacopœia preparation is intended. The inclusion of this clause in the agreement was due to the action taken by the Middlesex Pharmaceutical Committee early last year, when it was pointed out that panel chemists were placed in a dilemma by having either to supply B.P. liniments, etc., when only the methylated modifications would be paid for, or to risk prosecution under the provisions of the Sale of Food and Drugs Act, 1875. A simple way out of the difficulty would have been to require doctors to write "Meth.," where necessary, after the name of any of the preparations in question; but a less satisfactory solution of the problem has been adopted, and this throws upon the chemist the onus of deciding what methylated preparations may be dispensed. Obviously, the new condition is intended to apply only to preparations of the British Pharmacopœia in the manufacture of which methylated spirit may be used; and, as the permissive form is employed in the reference to their manufacture, it must be assumed that no methylated preparation is intended other than those which the Board of Customs and Excise permits chemists to dispense and sell. But, without express permission being obtained by the individual chemist, the use of methylated spirit (mineralised or industrial) is only allowed in making liniment of aconite, liniment of belladonna, ammoniated liniment of camphor, and liniment of soap. Presumably, no official exception would be taken to the use of methylated liniment of soap in the preparation of liniment of opium, or of the methylated liniments of aconite and belladonna in the preparation of the unofficial lin. A.B.C., but for the present it is not generally permissible to use methylated spirit in the preparation of liniment of croton oil and liniment of mustard, the remaining B.P. liniments in the manufacture of which alcohol is used. The only other general permission granted to chemists by the Board of Customs and Excise is in respect of mineralised methylated spirit used in the preparation of lotions for external use, when prescribed by duly qualified medical practitioners. It is noteworthy, however, that liquor picis carbonis meth. is included in the printed Drug Tariff, as well as the strictly B.P. form, though liquor formaldehydi saponatus, B.P., which might also conceivably be made with methylated spirit, is not there recognised so prepared. Other B.P. preparations of which methylated modifications are included in the Tariff or the Pricing Chart are collodion and flexible collodion. Apparently, therefore, it may be assumed that the new clause in the conditions of the chemist's agreement is intended to apply to the following preparations: Collodium, collod. flex., lin. A.B.C., lin. aconit., lin. belladon., lin. camph. ammon., lin. opii, lin. saponis, liq. picis carb., and possibly—unless the permission of the Board of Customs and Excise be withheld—lin. crotonis, lin. sinapis, and liq. formaldehydi saponatus. But inasmuch as prescriptions for liniments or other compounds in the manufacture of which methylated spirit may be used are to be interpreted as indicating the methylated preparation, unless the contrary intention is specifically indicated, a clear case seems to be presented for the removal of any uncertainty as to what the chemist may legally dispense and what he will be paid for. Otherwise, there will simply be a perpetuation of the old bad conditions under which chemists conceived themselves, in certain circumstances, obliged to supply strictly B.P. preparations, though only the methylated modifications were allowed for when pricing. Meanwhile, in all cases of doubt, and when the official preparations have actually been dispensed, panel chemists will be well advised to guard themselves against loss where necessary by taking care, before the scripts are despatched to the Pricing Offices, to see that the letters "B.P." appear on the prescriptions after the names of the preparations prescribed.

Orders for Cocaine.

There is need for the greatest care in dealings in cocaine, as the authorities are taking a serious view of cases where the regulations have not been completely carried out. It is often, for example, a difficult matter for a wholesale house to decide, especially where messengers are sent, that an order is really from an authorised person—*i.e.*, a chemist carrying on a retail business. We suggest that special care should be taken in sending properly signed orders for cocaine preparations, and that the telephone number of the chemist should also be given in case it is desired to make sure that the order emanates from the source it professes to. We make this suggestion advisedly, as there is a good deal of cunning in cocaine victims, and some of the ruses employed to obtain supplies are devised with extraordinary ingenuity. In like manner chemists should see that all the numerous details of prescriptions ordering cocaine are carried out. It is much better to offend a doctor than be subject to the penalties of the Defence of the Realm Regulations.

Handbills as Wrapping-paper.

Last month we placed before the Royal Commission on Paper the position under the Paper Restriction (Posters and Circulars) Consolidation Order, 1917, of chemists who desire to use up the stock of handbills as wrapping-paper. To prohibit the use of these handbills would really lead to a waste of paper, as clean paper would require to be employed whilst the stock of printed bills would have to be put aside. The Commission promised to consider the point, and we are glad to notice that in the Paper Restriction (Posters and Circulars) Order, 1918, which was summarised in the *C. & D.*, January 19, p. 35, effect has been given to our suggestion. Section 16 of the Order is as follows:

> Nothing in this Order affects the use by a retailer of an advertising circular printed before October 22, 1917, as a wrapper for an article or articles purchased at his place of business, provided no other form of wrapping-paper is used on the article or articles so purchased.

Chemists may therefore use handbills for wrapping up customers' purchases so long as these bills were printed before October 22, 1917, the date of the last but one Paper Restriction Order.

Drug-stocks Declaration.

Copies of the printed schedule for the declaration of drug-stocks are now obtainable on application to the Director of Army Contracts (Room 274), Imperial House, Tothill Street, Westminster, S.W. 1.. The forms are also being sent out by the War Office to a wide circle of traders. One interesting consequence of this is that we have received requests from importers and produce-dealers to translate the Latin descriptions of the drugs and chemicals. One firm who had received a form was astonished to hear that lard is included—it masquerades as adeps. We imagine that such a document sent to the general public should be in English, and it will not be expected that every business house unacquainted with Latin will consider it its duty to get the document translated. The return is to be completed "within fourteen days," but

as the Order was dated January 3, this period is not likely to be strictly adhered to, as it is practically impossible in most cases to fill in such a detailed return in the time allowed. It is not anticipated that the figures in regard to the minimum consumption during 1917 will yield accurate results, as certain parcels of crude drugs which have been sold and re-sold by dealers several times over before reaching the actual consumer will prevent this, especially in view of the fact that the schedules are being sent out broadcast. A Metropolitan wholesale druggist, for example, may buy, say, ten cases of rhubarb from an importer through a broker. He may sell, and frequently does, a case or two to another druggist, or to a drug-dealer, who in turn may sell a case to a provincial house, and thus, snowball fashion, the original ten cases is swollen to the number of times the goods have been dealt in before actually reaching the consumer. If it is the intention of the Army Council to ascertain the actual consumption of the scheduled articles during 1917, the wholesale druggists and manufacturing chemists could have supplied confidential particulars of the actual sales to retailers of the scheduled articles, together with the stocks on hand on December 31, 1917, leaving out altogether the importers and dealers, who need only have returned their stocks. Many parcels of synthetic chemicals are sold over and over again by dealers before reaching the wholesale distributors, and on this account the returns are likely to be misleading. It has been pointed out to us that the schedules are calculated to disclose certain details of businesses which it is undesirable to give to rival traders. Some method of detaching the names of the firms from the schedule should have been carried out. This would have given greater confidence at a time when Government Departments are being more and more distrusted in commercial circles.

Chlorcosane

is a solvent for dichloramine-T, which is proposed for the purpose by Drs. H. D. Dakin and E. K. Dunham. The method of preparation is as follows: Paraffin wax, preferably melting at 50° C. or higher, is placed in round-bottomed flasks and heated to about 120°. Two flasks connected in series, each containing a half-kilo. of the wax, may be conveniently used. A rapid current of chlorine from a cylinder of the liquefied gas is then passed through the molten wax in the flasks, each of which is provided with a thermometer and the necessary glass tubes. The temperature should be controlled within the limits of 125°-140°. The first flask in which the reaction is most vigorous will require but little heating. Chlorination is continued until the contents of the flasks have increased in weight 45 to 55 per cent. of the weight of wax taken. It will be found convenient to complete the chlorination of the first flask and then remove it, and transfer the second to its place, putting a fresh flask of paraffin wax after it. In order to avoid undue discoloration of the product, a minimum amount of rubber tubing should be used for the connections. Wide glass tubing should be used for passing the gases, and the ends of the delivery-tubes are preferably blown into bulbs provided with a number of fine orifices to promote good contact between the gas and oil. Hydrochloric acid is, of course, evolved freely during the reaction. After the requisite amount of chlorine has been absorbed, the oil, while still warm, is shaken vigorously with 5 per cent. of its weight of dry sodium carbonate, and then filtered through a dry fluted paper. The clear oil, which has a light yellow or sherry colour and is slightly heavier than water, is then ready for use. It possesses a viscosity intermediate between that of olive oil and castor oil, has almost no odour, and is perfectly bland when sprayed up the nose or placed on skin or wounds. Chlorcosane at room temperature can dissolve from 8.5 to 10 per cent of dichloramine-T. For wound-treatment a 7.5 to 8 per cent. solution is strong enough for all purposes, and is most conveniently prepared as follows: A portion of the oil—for example, a quarter—is heated to 75° or 80° C. and the weighed amount of solid dichloramine-T. is then added. The latter substance will promptly melt and dissolve in the warm oil, which is then at once diluted with the remainder of the oil and the whole well mixed. If necessary, the solution can be filtered, but with pure materials this is not required. The clear solution should be at once stored in small amber, corked bottles, and not exposed to unnecessary heat.—*British Medical Journal.*

Associations' Winter Session.

Accrington.—The annual meeting of the Accrington and District Pharmacists' Association was held in the Don Café, Accrington, on January 8, when the President gave a brief *résumé* of work accomplished during the year, and dealt with the situation up to date. The retiring officers were re-elected *en bloc*: *President*, Mr. J. S. Snell; *Secretary*, Mr. W. R. Cameron; *Treasurer*, Mr. H. Birkett.

Blackpool.—The monthly meeting of the Blackpool and Fylde Pharmacists' Association was held on January 4, the President (Mr. J. Laurie) in the chair. The minutes of the Education Sub-Committee were read and adopted. The question of applying for a rebate on the amount paid for methylated-spirit licences was discussed, but no collective action was taken. The Secretary reported that the recent appeal for subscriptions to the Pharmaceutical Parliamentary Fund had resulted in over 11*l.* being subscribed by members. A new scheme for dealing with people who claim to be insured persons entitled to medical benefit, but who have not got a medical card, will shortly be put into operation by the Insurance Committee. Mr. Bailey (Secretary of the Pharmaceutical Committee and pharmacists' representative on the Insurance Committee) explained how it will affect pharmacists on the panel. It was decided to hold the annual meeting on February 1.

Chesterfield.—A meeting of the Chesterfield and District Pharmacists' Association was held on January 15 at the Sun Inn. Mr. H. Smith Claycross presided, and made touching reference to the death of the late Mr. George Wright, one of the oldest and staunchest members of the Association. A vote of condolence and sympathy with the widow and family was carried in silence, the members standing. Letters of appreciation were also read from absent members. The minutes of the last meeting were passed and the correspondence read, but the other business on the agenda was left over to the next meeting.

Ealing.—A meeting of the Ealing and District Pharmacists' Association was held at Buol's Restaurant on January 15, the Vice-President (Mr. A. Senior) in the chair, when Mr. Hugo Wolff spoke on *The Future of Pharmacy*, and at the outset remarked on the rapid growth of the co-operative societies, the increasing trade being emphasised in the North of England. This fact constituted a strong argument in favour of energetic and combined advertising on behalf of members of the Pharmaceutical Society. Mr. Wolff drew particular attention to the successful advertisement schemes of the company stores, creating as they did in the minds of the general public by means of suitable maxims an atmosphere of safety and security in dealing with the firm. He said that in the title "M.P.S." the individual chemist had the finest possible nucleus of successful advertisement, inasmuch as the title was the monopoly of the private chemist, as distinct from the limited companies. In dealing with the question of the supply of "Glaxo" food to Infant Welfare Centres, Mr. Wolff said that in the face of Government control the Glaxo Co. was quite unable to alter the present conditions. Considerable discussion followed the address, and opinion was much in favour of some such advertising scheme as suggested by Mr. Wolff, who was thanked for his address, while the Association pledged itself to support his candidature at the forthcoming Council election.

Essex.—The County of Essex Association of Pharmacists met on January 8, when it was resolved to support the Brighton Association's effort to secure the protection of proprietary articles at face-value, and to communicate with the P.A.T.A. to this effect.

Harrogate.—On January 16, the Harrogate and District Pharmaceutical Association inspected the Royal Baths (one of the five establishments owned by the Corporation). Mr. F. J. C. Broome (the Superintendent) acted as guide and gave demonstrations of the various treatments. The party was received by the Mayor, the Chairman of the Baths and Wells Committee, and several Aldermen and Councillors, and tea was served before the tour of inspection began, the visitors being welcomed by the Mayor, to whom and the Corporation and officials a vote of thanks was passed on the proposition of Mr. J. W. Harper (President), seconded by Mr. H. F. Illingworth (Vice-President). Much interest was shown by the visitors in the various forms of baths, especially the D'Arsonal high-frequency current, the nasal douche and throat-sprays, and the cataphoresis and ionic-medication treatment. At the conclusion of the visit a hearty vote of thanks was passed to Mr. Broome for the information he had imparted in the course of the tour.

Hull.—The annual meeting of the Hull and District Pharmacists' Association was held at the Grosvenor Hotel,

Carr Lane, on January 8, Mr. L. S. Sellé (President) in the chair. A resolution was carried condoling with the family of the late Mr. T. W. Robinson, former President and Treasurer of the Association, and it was decided that a deputation should attend at the funeral. It was resolved to support the Brighton Association's proposal for charging face-values for proprietary articles. The annual report and balance-sheet were adopted. Officers were elected as follows: *President*, Mr. Sellé; *Vice-Presidents*, Messrs. Chapman, Snowden, and Earle; *Hon. Secretary*, Mr. V. H. Iddon; *Treasurer*, Mr. Newton; *Committee*, Messrs. Richardson, Jones, Buck, Good, Sawyer, T. Smith, Bennett, and Spilman. The following retail prices were agreed on: Spt. æth. nit., 6*d.* per oz.; spt. amm. arom., 5*d.* per oz.; spt. camph., 6*d.* per oz.; tr. quin. ammon., 6*d.* per oz.; ol. olivæ, ol. camph., ol. carbol., 4*d.* per oz.; colza oil, 1*s.* 6*d.* per pint; ol. lini, 1*s.* 6*d.* per pint; ol. tereb., 1½*d.* per oz., 2*s.* per lb.; pulv. glycyrrh. co. opt., 3*d.* per oz.; all Spanish juice, 4*d.* per oz.; tr. opii, (1898) 9*d.* and (1914) 1*s.* per oz. The concert is to be held on January 31.

London Co.—A meeting of the Executive Committee of the London County Pharmaceutical Association was held at 17 Bloomsbury Square, W.C., on January 15, Mr. A. R. Melhuish (President) in the chair. Apologies for absence were received from Messrs. Allen, Hearle, Thompson, and Humphrey. A letter was received from Mr. Hearle stating that he had tendered his resignation as a member of the County Executive to the North London Association, and that Mr. Hugo Wolff had been elected in his stead. The President and several members spoke of the valuable work accomplished by Mr. Hearle, which was highly appreciated by the whole of the Committee. It was afterwards decided that the Secretary be instructed to write Mr. Hearle asking him if he could see his way to continue as a member of the Committee. The Pharmaceutical Society wrote in reference to the supplies of olive oil and lard, and it was decided to leave the matter in their hands. The reports of the Pharmaceutical Insurance Sub-Committee, the Trade Sub-Committee, and the Organisation Sub-Committee were adopted. The last-named report contained—(*a*) a recommendation that the subject for simultaneous discussion by the District Associations for February should be "Face-value on all P.A.T.A. Articles," and (*b*) arrangements for certain lectures to be given before the District Associations of London. In this connection the North-Eastern and Eastern Associations propose to hold a joint meeting in February. The following resolution was then passed on the motion of Mr. Keith, seconded by Mr. Breese: "That this Executive is of opinion that face-value should be obtained on all articles on the P.A.T.A. list." On the motion of the President, seconded by the Vice-President, a hearty vote of congratulation was accorded, with acclamation, to Mr. Woolcock on the honour recently conferred upon him.

London (E.).—Over seventy members and friends of the West Ham, East Ham, and Metropolitan Essex District Association of Pharmacists took part in a highly successful whist-drive held on January 17 at Earlham Hall, Forest Gate, in aid of the Orphan Fund of the Pharmaceutical Society. Play commenced at 3.30 and finished at 5 o'clock, when tea was served. Four ladies' and four gentlemen's prizes were then presented to the winners by Mrs. Gwinn, wife of the President, two of the prizes being the gift of Messrs. Newbery. Mrs. Gwinn also ably acted as accompanist at the musical evening which followed, when songs were rendered by Misses Borer, Davis, Desmond, and Matthews, and recitations were given by Messrs. Potter and Soper. Mr. Saranoff gave excellent cornet and 'cello solos. Mr. Keith told some of his famous anecdotes, and Mr. Bert Franklyn gave several amusing "turns" at the piano. The Committee have forwarded 5*l.* 15*s.* to the Orphan Fund.

London (S.W.).—A meeting of the South-West London Association of Pharmacists was held at Raleigh College, Brixton, on January 10, and was very poorly attended. Mr. Glew (Vice-President) took the chair in the enforced absence of the President. Two ladies (Mrs. Freke and Miss Dale) were elected members. Mr. G. A. Tocher elucidated various questions regarding Insurance dispensing and the Opium and Cocaine Regulation.

London (W.).—The Western Pharmacists' Association met at the Restaurant Frascati, Oxford Street, W., on January 17. Mr. W. E. D. Shirtliff presided and announced the conditions for the shooting competition for the "Maw" Shield. Mr. Noble reported on the work of the London County Executive and the Pharmaceutical Committee. Professor H. G. Greenish was elected an hon. member of the Association. Mr. T. E. Lescher then read a paper on *Controlled Materials*. Having enumerated the various regulations, he complimented pharmacists on their reasonable attitude towards the difficulties thus created. He then proceeded to give reasons for the restrictions on the various articles, grouping them as follows: (1) Cocaine and opium, which were controlled to prevent the growth of the drug-habit; (2) cocaine and morphine, of which the export to the East is regulated on account of the demand from China and Japan, consequent on the stoppage of the export of Indian opium; (3) glycerin, acetone, castor oil, etc., supplies of which are stopped as all are needed for munition-work; (4) sugar, timber (for packing-cases), etc., which are restricted for all purposes, but with a preference when employed for medicinal uses; (5) alcohol, controlled for non-medicinal use but free for medical needs; (6) acetic and sulphuric acids, potash and lead compounds, etc., partly restricted; (7) lard and fixed oils, required for food and controlled on account of import difficulties, but the conditions are not yet fixed for these, nor for stearin and paper (for price-lists); (8) glassware and thermometers, which are unrestricted for medical and scientific purposes (a form of preference disguised as restriction); (9) chloroform and ether, restricted owing to existing circumstances. Heavy chemicals are also getting scarce on account of the cost of labour, carriage, etc., while shipping difficulties impede supplies of foreign drugs—*e.g.*, sugar of milk—and others are prohibited because of their bulk, such as cloves and senna. Mr. Lescher then mentioned the War Office Returns as necessary to ensure sufficient supplies of drugs and to allocate tonnage for import. He paid a tribute to the Insurance authorities for their business methods and sympathetic treatment of the drug-trade in regard to matters of control. He had also found the Contract Department of the War Office "as good a Department as one could wish to negotiate with." Finally he referred to the Bill for the extension of control after the war, and agreed that such a measure is necessary to prevent the Germans from re-entering our markets. A good discussion followed, in which the President and Messrs. Pratt, Barrett, Wilkinson, Etterington, Widgery, and Melhuish took part, and a hearty vote of thanks was accorded to Mr. Lescher. A vote of congratulation was also passed to Mr. Woolcock on his becoming an Officer of the Order of the British Empire.

Manchester.—The Manchester Pharmaceutical Association met at 65 Market Street on January 16. Mr. Joseph Bell (President) occupied the chair, and, after referring to the honour bestowed on Mr. Woolcock, formally introduced Mr. J. W. Deakin as a thoroughly sound business pharmacist. Mr. Deakin, on rising to give his address entitled *Whence? Whither?* said, no doubt everyone was puzzled to know from the title of his address what he was going to say. It was his intention, he said, to arouse that curiosity, hence the title. He outlined and dwelt on the olden times and style of apothecary from "whence" came the present-day chemist and druggist. He was sure that in the relations of pharmacy to the State we could lay claim to a clean slate. He referred to the service rendered under the Insurance Acts, and said that although conditions had been very irksome at times, we as a body had stuck it, and we were just beginning to benefit under the improved conditions under the Acts. We must also remember that we now held the title of Chemists to the State. Whilst by education and training we claim to be professional men, trade interests and matters had become so merged with the professional side that it was only by the man moulding his own career that he could make it whatever he chose. He emphasised that it was the man's own personality that made a business. Personality was man's greatest asset. Mr. Deakin next discussed the work of the Pharmaceutical Society in connection with drug supplies and the war, and then dealt with territorial representation, saying that from the moment Mr. F. W. Bates introduced that admirable scheme at a conference in London he felt that it was a great and splendid ideal to set up. He complimented Manchester pharmacists as being the originators of such a scheme, and said that he had good reasons for hoping that the scheme of territorial representation would soon be put into operation. There could be no doubt that it was absolutely imperative that every part of the country should be in close touch with headquarters. Regarding the scheme of a compulsory curriculum, that was also a matter that had been the cause of a great deal of work and anxiety. Another matter which had been the cause of great concern was the fight for the title of chemist. The Council of the Pharmaceutical Society held very strong views regarding that, and he could assure them that they were alive to their interests. He paid a tribute to the service rendered by Mr. Glyn-Jones as Parliamentary member, but he was sure that in Mr. Woolcock they would have an excellent M.P. if elected. But they must not be in the position of only having one string to their bow; he hoped to see before long pharmacy represented in Parliament by many more chemists of every shade of opinion, so that no matter what party was

in power, their interests would be looked after. Mr. Deakin was thanked for his address on the proposition of the President, seconded by Mr. F. W. Bates, J.P. Mr. W. Kirkby, M.Sc., Mr. Simmons (Salford), Mr. A. Hershberg, Mr. Scanlon (Altrincham), and Mr. Jas. Grier, M.Sc., also spoke in terms of great appreciation of Mr. Deakin's admirable paper.

Sheffield.—A meeting of the Sheffield Pharmaceutical and Chemical Society was held in the Literary and Philosophical Society's Rooms on January 16. Mr. A. H. Culverhouse presided. Mr. H. B. Hammond was elected a member of the Society. The meeting was on somewhat new lines, Messrs. H. Bown and G. F. Leighton, two younger members of the Society, making their first appearance as lecturers, the combined papers covering the whole political area, and it was felt on all sides that they had made a decided "hit." Mr. Bown dealt with *The Stronger Organisation of our Local Society.* He asked, "What is Pharmacy?" and continued: By Act of Parliament it is a profession, as stated in the legal Charter, but by actual fact and experience it is semi-profession, semi-trade, and no amount of discussion can alter the fact. There seems to be quite a strong body obsessed with the professional idea and also another with that of the commercial side of the question. Now, if it is possible to agree upon a policy mutual to both and thereby obtain the united energy of all classes interested in pharmacy, much will be accomplished. If we accept the fact that there are two interests, both of which must be protected, then there is room for an enlarged policy for local Societies. Mr. W. L. Currie, when delivering his paper before this Society, clearly defined the duties of the Pharmaceutical Society, and stated that, according to the Society's Charter, it cannot concern itself with the business side of pharmacy. In Mr. Bown's opinion it would be better that the Society did not. Quite a great deal has been heard lately of the Progressive Pharmacy Club. Some of its ideas are very good, but the point where it is lacking is that it is far too local. What is desirable is a National Union of Pharmacists, with its organisation reaching all parts of the Kingdom, and this can be attained through the local Societies, who can serve both the parent Society and the Union of Pharmacists. These local Societies can elect representatives for a County Committee, and from that elect a national body, quite apart from the Society. This body could be left to deal with all trade matters, which are many, while purely professional matters could be left to the Society, and yet pharmacists could be members of both the Society and this Union, and thereby be protected both for business and professional interests. Our own local Society, although strong, is capable of further expansion, especially when one glances at the list of members and then reflects on the numbers present. Another point is the appointment of District Secretaries to carry out certain work of the local Society, and who would work through our own Secretary. Much could be accomplished by it, particularly in interviewing prospective members and various other duties. It is desirable to form an Emergency Committee to advise as to uniform action on matters which require quick attention from time to time. Another matter is the attraction of apprentices to the Society. This could be attained by offering prizes—to be provided out of the funds—to be competed for by examination in such subjects as business methods, elementary chemistry, botany, etc., open only, of course, to apprentices who are members of the local Society, as the apprentices must be looked upon as the future members for strengthening the cause of pharmacy. As regards policy, there is plenty of food for thought on that score, particularly after the war, and the advance of the power of Labour and co-operative development, prices, education, hours, and a hundred-and-one other matters attendant on pharmacy. One notices in the Press the intentions of the miners to contest sixty or seventy seats in the next general election; and when one looks to the future, especially to the matter of the formation of a Ministry of Health and its administration, the pharmacist will become more and more a servant of the State and to the public, which emphasises the need for greater unity. The co-operative movement is perhaps a force which will hit hard a good many chemists in industrial districts. The necessity for combating this and also the multiple stores will become more and more acute as time goes on. When the chemist realises his own strength and can understand that the multiple stores and co-operative societies cannot go on without his services, he will not be so willing to encourage this class of pharmaceutical monopoly. Another matter which could only be efficiently tackled by a strong Union of chemists is patent medicines and their profits. Only a few weeks ago, at a meeting of this body, a resolution was carried advocating the retailing of these commodities at face-value, but no result has been obtained, nor is it likely to until we have a weapon to wield against pharmaceutical exploiters, and that can only be done by the co-ordination of the efforts of all the Societies to act through a main executive body, which can effectively demand a fair remuneration for the retailing of these goods. Mr. Leighton discussed the subject of *Trade versus Profession.* He adduced three reasons for his paper: (1) The unsuccessful attempts of our representatives to secure for us our full professional rights in many directions, notably under the Insurance Acts and as regards Army rank; (2) his opinion that if chemists are to come into their own they must increase their efficiency as individuals and stimulate the pharmacist so to conduct his business that he will be entitled to respect as a professional man; (3) the indifference to their own interests which appears to be specially developed among pharmacists, an example of this being the recent P.A.T.A. Council election, where only 40 per cent. of the voting-papers sent out were returned. Mr. Leighton thinks that if we are to progress we must show more of the professional and less of the business spirit. We are professional men by virtue of our qualification: the question is, How far are we to be professional men and how far tradesmen? He would like to see compulsory membership of the parent Society made a condition of the granting of the qualification. Then, and not until then, can the Society's demands be truly representative and carry the maximum weight. An urgently needed reform is the re-naming of the examinations. He suggested the titles of Licentiate and Fellow of the Pharmaceutical Society for Minor and Major men respectively. As to the advantage of compulsory membership he took the case of the pharmacist and the Army. If the Society had been able to approach the military authorities with the weight of so many thousand members who demanded their rights as trained professional men, what would have been the result?—always assuming the deputation knew what it wanted, not as in the actual case, where one of its members publicly stated that he did not agree with the demand for pharmaceutical commissions. Mr. Leighton urged that the higher the opinion we have of ourselves, the higher will be the public opinion of us. We shall shortly have to defend our hereditary title of "chemist" against the claims of the Institute of Chemistry, and he trembled to think of the result unless we say with one voice, "Hands off!" Then in regard to the proposed Ministry of Health we ought to be ready to claim our rightful place as dispensers of the nation's medicine. Turning to individual efficiency, the speaker deplored the fact that some pharmacists develop into general-store keepers. Oils, colours, paints, distempers, stationery, fancy goods, and even toys, appeal to some as suitable side-lines: some pharmacies can hardly be recognised as such because there is apparently so little to identify them. Side-lines are a necessity to most pharmacists; but why not choose those which elevate rather than those which bring us down to the level of a general dealer? Dentistry, optics, bacteriology, surgical instruments, massage and electrical treatment, and veterinary work are all remunerative side-lines which gain for the pharmacist greater respect; and if we have the respect of the public individually, we shall certainly have it in a far greater measure collectively. Further, pharmacists must not rest satisfied with having apprentices, but must train them thoroughly and create in them a pride for their profession which will show itself throughout their career. How the Progressive Pharmacy Club has been adversely criticised! Why? Because they are the younger men, with professional ideas. The "stick-in-the-muds" wag their heads wisely and hurl forth destructive criticisms which, unless the movement is strong, will shake its foundations. Progress will never come that way. What a difference if, on the other hand, we had constructive criticism with a word of encouragement to these men! Messrs. E. Haining, Dawson, Antcliffe, Hammond, and B. Ellis joined in the discussion, the last named strongly advocating the formation of a trade union.

Swansea.—A meeting of the Swansea and West Glamorgan Chemists' Association was held at the Cameron Hotel, Swansea, on January 10, the President (Mr. Arnold, Cwm Avon) in the chair. After the ordinary business had been settled the following subjects were discussed: Special script forms for discharged soldiers and sailors: the position of methylated preparations: pharmacists' liability to prosecutions under the Sale of Food and Drugs Acts; the cost of carriage and postage of Insurance scripts to Cardiff: the supply of cod-liver oil and malt under ordinary panel treatment; and the protection of patents at face-value. These matters were referred to the South Wales and Monmouth Federation of Pharmacists' Executive, whose next meeting is to be held at Swansea on January 31. In the evening of the same day, after the meeting of the Executive, a general meeting will be held at the Grosvenor Hotel, Swansea, all members of the Federation being invited.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. As a result of the War wholesale houses have had to contend with many fresh difficulties, some of which have involved greatly increased expenses. Shortage of labour with higher wages (equal to almost double pre-war rates) has a direct effect upon values of goods, as also have railway carriage, freights, cartage, and other charges. The foregoing and other incidental outlays prevent retail buyers purchasing at the market prices quoted here.

42 Cannon Street, E.C. 4, January 24, 3 p.m.

THE week has again been a quiet one in chemicals and drugs. It has, however, to be noted that a good many parcels of synthetic chemicals have changed hands, with the result that prices have appreciated in several directions. Acetanilide is rather dearer and scarcer; hexamine has also improved in value, and holders are asking higher rates for hydroquinone, chloral hydrate, cream of tartar, and tartaric acid. Formaldehyde is easier and saccharin lower. The Japanese Government will be unable to offer camphor for January-March shipment direct to this market, so that the outlook for consumption in the spring points to higher prices. Among drugs and seeds, senega and tonka-beans are held for higher prices. Balsam peru, fenugreek-seed, menthol, and oil of Japan mint are easier. Camphor oil has sharply advanced. Ergot is dearer, and American peppermint oil has been in more inquiry.

Higher	Firmer	Easier	Lower
Acetanilide	Ergot	Balsam peru	Cinnamon (c.i.f.)
Camphor oil	Hydroquinone	Copper sulphate	Lemon oil
Canary-seed	Peppermint oil (Amer.)	Fenugreek-seed	Saccharin
Cream of tartar		Formaldehyde	
Farina (Jap. c.i.f.)		Menthol	
Hexamine		Mint oil (Jap.)	
Senega			
Tartaric acid			
Tonka-beans			
Turpentine			

Cablegram.

NEW YORK, January 24.—Business in drugs is fair. Menthol is lower at $3.20 per lb. Mexican sarsaparilla has been advanced to 65c., and hydrastis (golden seal) has been reduced to $4.90. Taraxacum-root is lower at 36c. Benzoate of soda and benzoic acid have both advanced to $6.00 per lb.

ACETANILIDE is rather dearer, due to the lateness of arrivals from the U.S.A., spot holders asking 4*s.* 9*d.* to 5*s.* per lb.

AGAR-AGAR.—Sales of No. 1 and No. 2 strip have been made at 2*s.* 4½*d.* per lb. c.i.f. for February-May shipment.

ALOES.—The exports from the Union of South Africa during October amounted to 239,106 lb., valued at 2,517*l.*, against 13,933 lb., valued at 140*l.*, in October 1916. For the ten months ended October 31 the exports were 700,543 lb. (6,375*l.*), against 852,062 lb. (7,942*l.*) for the ten months of 1916.

ANTIMONY.—The official Order issued towards the close of last week prohibiting, except under licence, the imports of antimony ores, antimony crude, and regulus, as well as antimony sulphide, was known to be impending for some little time past. Of course market conditions have become more difficult, while the Order will have the effect of delaying the shipment of material against old contracts. It will, however, not make much difference just now as regards new c.i.f. business, for this had been practically at a standstill for some time past. It is surmised that the official measure has been to some extent induced by the idea of saving freight room in view of the chronic scarcity.

ARROWROOT.—Good manufacturing St. Vincent is quoted at 7½*d.* per lb. on the spot.

ASPIRIN.—Several English makers have ceased production, and with the falling off in the shipments from the United States the undertone is steady at from 13*s.* to 13*s.* 6*d.* per lb., at which prices (considering cost of raw material) the chemical is one of the cheapest in the market.

BALSAM PERU.—Spot prices are a shade easier at 18*s.* per lb., as lower prices have been cabled from New York. It is difficult, however, to effect shipment from that port.

BALSAM TOLU is still very scarce, with spot sales at 5*s.* 6*d.* per lb.

BAYBERRY-BARK has been selling at 1*s.* 1*d.* per lb. net on spot.

BENZOATES.—Prices in the U.S.A. continue to advance, but no business is practicable, as English makers' prices are much below the American parity.

BISMUTH SALTS.—Some parcels of the salts (a fair sized quantity), originally intended for shipment to Russia, are now available for sale here.

BROMIDES.—One of the makers has raised his prices to 7*s.* 6*d.* to 7*s.* 9*d.* for potassium, 5*s.* 6*d.* for ammonium, and 3*s* 3*d.* to 3*s.* 6*d.* for sodium. At these prices business is passing, but there is difficulty in supplying buyers' demands, as only small lots are available.

BUCHU.—The exports from the Union of South Africa during October 1917 amounted to 2,616 lb. (458*l.*), against 12,596 lb. (2,478*l.*) for October 1916. During the ten months ended October 31 the exports were 124,110 lb. (20,154*l.*), against 123,771 lb. (20,568*l.*) for the corresponding period of 1916.

CALUMBA.—The high prices paid at auction last week will, it is anticipated, lead to arrivals of further lots, as the demand was only partly satisfied.

CAMPHOR.—We intimated in our issue of January 12 (p. 49) that no offers for January-March shipment were being made of either "B" or "B B" camphor by the agents of the Japanese Government, and we understand that they have nothing to ship direct to this market for the next three months. The United States is, however, getting fairly regular quantities, so that British supplies are likely to be drawn from this source to a certain extent. Sales of Japanese refined slabs have been made at 3*s.* 8*d.* to 3*s.* 9*d.* per lb. on the spot; 1-oz. and ¼-oz. tablets at 4*s.* 2*d.*

CAMPHOR OIL.—Sellers are asking the higher rate of 100*s.* per cwt. for white essential Japanese on spot. A fair quantity has been sold on spot.

CANARY-SEED has risen in price considerably, and business has been done at 155*s.* to 157*s.* 6*d.* per quarter for ordinary to good Morocco.

CAPSICUMS.—At auction 333 bales Bombay offered and 178 sold at 45*s.* for fair stalky red and at 25*s.* subject for common perished.

CASCARA SAGRADA.—On the reduced stocks sellers advanced their asking price to 115*s.* per cwt. on the spot, which is regarded as a dangerously high quotation.

CASSIA LIGNEA.—Sales of whole selected on the spot have been made at 77*s.* 6*d.* per cwt.

CINNAMON.—Ceylon to arrive is offered at the lower price of 2*s.* per lb. c.i.f. for usual assortment. There is a better prospect of supplies coming forward.

CITRATES are dearer, than when last quoted, makers' prices being: B.P. *Potash*, 4*s.* to 4*s.* 1*d.*; *sodium*, 2*s.* 10*d.* to 2*s.* 11*d.* per lb. *Ferri et ammon. cit.* B.P., 2*s.* 10*d.* to 2*s.* 11*d.*; *virid*, 3*s.* 5*d.* to 3*s.* 8*d.* per lb., according to quantity.

CLOVES.—Retail sales of fair Zanzibar have been made at 1*s.* 9*d.* per lb. on the spot, and to arrive, January-March shipment, 1*s.* 6*d.* c.i.f. is quoted.

COCOA-BUTTER.—Sales of prime English have been made at 1*s.* 7½*d.* per lb. on the spot.

COD-LIVER OIL.—We understand that the Norwegian Government has undertaken control of all trading in fish-oils (including cod-liver), and that it is their intention to manufacture a butter-substitute from Norwegian fish-oils. In connection with the above the British Board of Trade states that—

"A Norwegian scientific committee which has been at work on the subject for some time past claims to have established the possibility of making margarine from cod-liver oil, herring oil, and other fish oils identical in every way, including taste, with that at present manufactured from vegetable oils. As the manufacture of margarine from this new source will, it is stated, require no change of machinery in the existing margarine-factories, the new process will shortly be put into practical operation. The gain to Norway from the operation of this process will be material, inasmuch as she will no longer require to import vegetable oils for margarine making, but will find her raw material in her own waters."

COPPER SULPHATE.—We are informed by the Food Production Department of the Board of Agriculture and Fisheries that the question of an Order controlling retail prices for agricultural purposes is at present under consideration by the Government Departments concerned.

CREAM OF TARTAR has advanced a further 10*s.* per cwt. on the spot owing to scarcity, and closes at 370*s.* for 98 to 99 per cent. powdered.

ERGOT.—Spot sales of sound Russian have been made at 2*s.* 10*d.* per lb., with 3*s.* asked, the same price being asked for sound Spanish.

ETHER.—Present prices for ethers made from duty-paid pure spirit are, s.g. 0.735 B.P. 1898, 8*s.* per lb., and s.g. 0.720 1914 (for anæsthesia), 8*s.* 7*d.* per lb. Those prepared from industrial methylated spirit are—s.g. 0.720 (B.P. 1914), for anæsthesia, 3*s.* 2½*d.*; for ice-machines, etc., s.g. 0.730, 2*s.* 4*d.*; 0.725, 2*s.* 6*d.*; 0.720, 2*s.* 7*d.* per lb.

FARINA is dearer, sellers of Japanese No. 1 for February-April shipment asking 63*s.* per cwt. c.i.f.; spot sales are reported at 63*s.*

FENUGREEK-SEED is easier at 45*s.* to 46*s.* per cwt. for Morocco, according to quantity.

FORMALDEHYDE is in easier tendency, and 150*s.* per cwt. will buy spot parcels.

GERANIUM OIL.—Sales of Bourbon are reported at 23*s.* 6*d.* and African at 22*s.* per lb. on the spot.

GINGER.—Quiet; at auction 446 bales Cochin and Calicut were bought in, including washed Cochin at 72*s.* and 180 bags Japanese limed at 54*s.* to 55*s.*

GLUCOSE.—Neither glucose nor starch-powder appears to be obtainable on the spot.

HEXAMINE is firmer at from 5*s.* 6*d.* to 5*s.* 9*d.* per lb. on the spot, in sympathy with an advance in the U.S.A.

HYDROQUINONE is rather dearer in the United States, and as spot parcels are scarce, from 12*s.* to 12*s.* 6*d.* per lb. being asked.

IRISH MOSS.—Fair white sells at 50*s.* per cwt. on the spot.

LEMON OIL is still tending downwards, with spot sellers of good brands at from 3*s.* 10*d.* to 3*s.* 11*d.*

MACE.—Steady, at auction 35 packages West Indian selling at 4*s.* 6*d.* for bold flat pale, at 3*s.* 7*d.* for good pale, 3*s.* 1*d.* to 3*s.* 4*d.* for fair, 2*s.* 9*d.* to 3*s.* for common to ordinary, and at 2*s.* 6*d.* to 2*s.* 8*d.* for broken.

MENTHOL.—Small sales have been made at 12*s.* 9*d.* per lb. on the spot, at which there are further sellers.

MILK-SUGAR.—Spot sales have been made at 290*s.* per cwt., but quotations at the close are from 295*s.* to 300*s.*

NUTMEGS.—At auction 60 packages West Indian and 27 boxes Singapore sold at steady rates.

PEPPER.—Quiet, with spot sellers of fair black Singapore at 1*s.* 2*d.*, Tellicherry at 1*s.* 3¾*d.*, and Aleppy at 1*s.* 3¼*d.*; at auction 165 bags Singapore were bought in at 1*s.* 2*d.* for fair, 453 bags Tellicherry at 1*s.* 4*d.*, and 105 bags Alleppy at 1*s.* 3½*d.* for fair. Sellers of fair *white* Singapore quote 1*s.* 7½*d.*, and Muntok 1*s.* 7½*d.* on spot.

PIMENTO.—At auction 200 bags were bought in at 4⅛*d.*

PIMENTO OIL.—Stocks of the usual West Indian distilled oil as imported appears to have disappeared off the market, and recourse has to be had to English distilled, which is worth about 15*s.* per lb. There is a stock of over 40,000 bags of pimento in London, enough for five years' consumption, while the export is prohibited.

POTASH SULPHOGUAIACOLATE is offered at from 102*s.* 6*d.* to 105*s.* per lb. on spot.

POTASHES.—Market is bare of supplies in Liverpool, and prices of first Montreal are nominal at 250*l.* per ton.

QUININE.—Dutch makers are expected to be in a position to offer further quantities later in the month for January-February shipment from Holland. Meanwhile from 3*s.* 4*d.* to 3*s.* 5*d.* per oz. is quoted for small lots of sulphate.

SACCHARIN.—Offers have been made more freely from the United States, indicating increased production, and there is much keener competition for export business, with the result that prices have fallen somewhat rapidly for forward delivery. Spot value is about 310*s.* to 320*s.* for 550 strength. New York, under date of January 9, offers 550 soluble at $23.00 and insoluble at $20.00 per lb. f.o.b. net.

SALICYLATES are a dead letter at the moment, but with the falling off in the shipments from America and the large Government demand on that side, there is no possibility of any decline.

SALOL.—Spot sales have been made at from 9*s.* 6*d.* to 10*s.* per lb., but the higher price is now asked.

SHELLAC.—Quiet but firm, the spot sales including usual standard Orange TN quality at 370*s.* to 371*s.*; fine Orange is 450*s.*

TARTARIC ACID is dearer at 3*s.* 3*d.* per lb. on the spot.

TONKA-BEANS are dearer, fine Angostura offering at 5*s.* 6*d.* to 6*s.*, frosted Para at 3*s.*, black at 3*s.*, and foxy at 2*s.* per lb.

TURPENTINE has fluctuated daily, closing 128*s.* for American on the spot.

WAX, JAPANESE.—Sales afloat have been made at 95*s.* 6*d.* per cwt. c.i.f.; spot price is 100*s.*

Arrivals of Chemicals, Drugs, etc.

THE following arrivals have taken place at the Ports of London and Liverpool:

To London
(January 12 to 18).

Acetic acid, 100 cbys.
Alcohol, methylic, 7,055 gals.
Antimony reg., 25 tons
Argol, 1,941 bgs.
Arsenic, 110 cwt.
Camphor, 25 cs.
Cascarilla, 8 bls.
Casein, 1,944*l.*
Chemical products, unrated, 98 cs.
Chloral hydrate, 11 kgs.
Coumarin, 1 cs.
Cream of tartar, 60 pkgs.
Dyestuffs, tanning materials, etc., 61 pkgs. 40 cks.; cochineal, 40 pkgs.; myrabolans, 2,000 pockets; tanners' bark, 404 tons
Gamboge, 2 cs.
Gums (cwt.): acacia, 201; (ghatti), 560; acroides or grass-tree, 1,600; tragacanth, 139
Kola, 55 cwt. and 14 bgs.
Male-fern ext., 4 cs.
Matico-leaves, 38 bls.
Menthol, 20 cs.
Musk, ambrette, 290*l.*
Nuts and kernels (cwt.): arachis, 2,500; palm, 35,300
Oils, essential, unrated, 787 cs. 7 drms.; eucalyptus, 564 cs.
Oils, fixed: cade, 20*l.*; coconut, unref., 218 pkgs. 27 pps.; fish, 50 brls.; palm, unref., 226 cks.
Opium, 41 cs.
Orris, 10 bls.
Peptone, 1 cs.
Perfumery, unrated (mostly raw materials), 429*l.*
Pyrogallic acid, 8 cks.
Resin, 50 cks.
Saffron, 1 cs.
Seeds (bgs.): coriander, 255; cotton, 7,865 bgs. and 21 tons; cumin, 91; dill, 87; fenugreek, 1,277; lin, 26; sunflower, 150
Senna, 93 bls.
Soda, unrated, 25,120 cwt.
Starches (cwt.) 200
Talc, 825*l.*
Tallow, 840 cwt.
Tannic acid, 10 cks.
Thymene, 26 cs.
Wax, not described, 185 pkgs. 25 sks.

To Liverpool
(January 14 to 19).

Acetanilide, 11 brls. 1 kg.
Antimony, ref., 35 tons
Argol, 281 bgs. 23 cks.
Arsenic, 50 bxs.
Betanaphthol, 75 brls.
Calabar beans, 19 bgs.
Celluloid, raw, 20 cs.
Charcoal, animal, 250 bgs.
Chemicals, unrated, 3,984 brls.
Cinchona, 1,169 bls.
Copaiba, 20 brls.
Cream of tartar, 58 cks. 60 kgs.
Dinitrochlorbenzol, 1 drm.
Dinitrophenol, 4 brls.
Drugs, unrated, 299 bdls. 55 cs. 133 bxs. 59 bls. 4 bgs. 2 kgs. 5 brls. and 149*l.*; herbs, medicinal, 416 bls.; roots, medicinal, 30*l.*
Dyestuffs, tanning materials, etc.: cutch, 1,100 bxs.; gambier, 1,165 cs. 628 bgs.; hematine cryst., 100 cks.; indigo, 13 chts.; logwood, 20 tons; logwood ext., 60 cks.; myrabolans, 6,400 pockets 3,946 bgs.; tanning ext., 1,906 cks.
Ergot, 2 sks.
Gelatin, 23 bls. and 540*l.*
Gum acacia, 42 bgs.; copal, 50 cs.
Iodine, 2 kgs.
Lithopone, 20 brls.
Menthol, 50 cs.
Nickel oxide, 197 brls.
Nuts and kernels (bgs.): arachis, 1,622; copra-856; palm-kernels, 53,804 bgs. and 465 tons
Oils, essential: bergamot, 5 pkgs.; citronella, 10 drms. 20 crts.; copaiba, 8 cs.; peppermint, 50 cs.
Oils, fixed: palm, 2,460 cks. 50 butts
Opium, 100 chts.
Pumice stone, 600 bgs.
Salicylic acid, 4 brls.
Salol, 7 cs. 1 kg.
Saltpetre, 3,788 bgs.
Sarsaparilla, 19 bls.
Seeds: cotton, 50 tons; lin, 23,918 bgs.
Soda hyposulph., 1,300 kgs.
Soda nitrate, 1,443 bgs.
Starches, 3,221 bgs. 66 sks.
Talc, 2,410 bgs.
Tartaric acid, 52 cks. 61 pkgs.
Thorium and cerium nit., 20 cs.
Vanilla, 2 cs.
Wax, carnauba, 159 sks.
Wax, paraffin, 2,528 bgs. 200 brls.
Wax, vegetable, 100 cs.
Zinc oxide, 1,200 brls

French Essential Oil Market.

Paris, January 18.

ANISE OIL (STAR).—"Red Ship" brand is 16.50fr., duty paid.

CANANGA OIL is quiet at 58fr.

CEDARWOOD OIL.—A consignment has reached Marseilles from the U.S.A.; 5fr. per kilo. (duty not paid) is asked.

GERANIUM OIL.—Spanish is 90 pesetas, duty not paid. Algerian is dearer at 70fr. per kilo. Réunion is 65fr., and a still greater advance in the price is expected, the crop having proved very short. Palmarosa is 50fr. c.i.f. Marseilles; some drums are afloat.

LAVENDER OIL is firm at 45fr. for first-class quality. French spike is 15fr., and very scarce. Spanish spike is 8.50fr. on spot.

LEMONGRASS OIL is 21.50fr., duty paid, Marseilles.

LINALOE OIL is scarce at 45fr. per kilo.

PETITGRAIN OIL (PARAGUAYAN).—Some parcels expected at Marseilles are offered at 45fr.

ROSEWOOD OIL is dearer at 50fr. per kilo.

SANDALWOOD OIL is easier at 165fr. per kilo.

YLANG YLANG OIL.—A small parcel of Mayotte of second-class quality is offered at 65fr.

Austrian Drugs.

The Austrian firm of Philipp Röder-Bruno Raate A.G. published a trade report of the end of November, in the course of which they said that the prices of practically all medicinal plants have increased considerably in consequence of the scarcity and high cost of labour, while the quantities that have been collected are extremely small, though very high wages have been paid. Germany refuses to export to Austria and neutrals several very important medicines, such as bismuth and quinine salts, theobromine preparations, etc. Opium alkaloids, aspirin, acetylsalicylic acid, and other salicylic preparations are exported from Germany in entirely insufficient quantities to meet the demand. Codeine and morphine are very high in price and extremely scarce. Spirituous preparations and ethers are much higher in consequence of a new duty of k.14 per hectolitre on

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spirit. At the time the trade report was written only seven tinctures were to be had—viz., arnica, belladonna, opium, strophanthus, valerian, chamomile, and iodine. Turpentine, turpentine oil, and colophony are non-existent.

The Price of Iodine.

The following is from the "Chemical Trade Journal" of January 19:

"On several occasions since the beginning of the war we have referred to the outrageously high prices charged by the nitrate producer for the by-product iodine, used in enormous quantities in the treatment of the wounded. In our issue of February 17, 1917, under the heading 'A Sop to Cerberus,' we referred to the reduction of the official selling price from 10½*d.* to 8½*d.* per oz., but we recently announced its restoration to the higher figure, and once more we feel called upon to protest against the imposition; it is the more flagrant in that it applies to a drug the supply of which on reasonable terms is at the present moment of vital national importance. For obvious reasons the profits made on the commodity are never shown separately in the accounts of the nitrate companies, but that they are 'beyond the dreams of avarice' may readily be inferred from the fact that until lately stocks of iodine in Europe were valued at 'about 1½*d.* per oz.' The cost of production, like that of nitrate of soda itself, has no doubt risen, as also have freights and insurance, yet the margin of profit is altogether beyond reason, more especially at the present juncture, when, if only on patriotic grounds, the English producers at all events should scorn to take advantage of the nation's needs. The output is strictly controlled and 'pooled' under the 'Iodine Combination,' in existence for more than twenty years, and with the production of nitrate on the present scale *it could easily be doubled* and *sold at half the current price* at a handsome profit. It has always been a source of wonder to us that the Government did not long ago 'requisition' all the iodine in this country required for the Services, and surely it is high time for the adoption of that measure. The return required under the Drugs and Chemicals Order, 1918, when made by the representatives of the Iodine Combination, will show the stocks held on December 31, 1917, and the quantity sold last year. Unless we are much mistaken the figures will cause some surprise in official circles."

[The return in question does not require stocks of crude or re-sublimed iodine to be declared, but "iodides" only.—ED.]

German Chemical Industry.

The "Frankfurter Zeitung" states that war conditions have necessitated considerable changes and extensions in the German chemical industry, and the introduction of new machinery and plant in a good many of the works. Part of the expenses incurred has been covered by the Government, and part has been provided by the undertakings themselves. The existing combine of the larger German chemical-works, already referred to in the *C. & D.*, though it leaves the independence of each unaffected, must nevertheless lead to common action in so important a question as the raising of new capital. Rumours of such action have been in circulation for some time, and at length, on November 3, the various boards decided on an increase of capital. No public announcement on the subject has been made, but the writer in the "Frankfurter Zeitung" understands that the proposals were adopted in every case; while, however, the Imperial Bank had signified its approval, the consent of the Minister of Trade had yet to be obtained. The three largest members of the combine—the Farbwerke Höchst, the Badische Anilin- und Soda-fabrik, and the Farbenfabriken vormals Friedrich Bayer & Co.—which increased their total capital to 54,000,000m. at the time the combine was inaugurated, now propose to raise this sum to 90,000,000m. The new shares, which it is intended shall participate in the current year's profits, will be offered to the old shareholders at 107 per cent. The A.-G. für Anilin-fabrikation will raise its capital from 19,800,000m. to 32,000,000m. or 33,000,000m.; the Chemische Fabrik Griesheim Elektron, Frankfurt a/M., which has belonged to the combine since January 1, 1917, from 16,000,000m. to 24,000,000m. or 25,000,000m.; the Chemische Fabrik vormals Weiler-ter-Meer from 8,000,000m. to about 10,000,000m.; while for Leopold Cassella & Co., the increase is not yet specified. It is expected that some 150,000,000m. new capital will be raised, but the total will in no wise suffice for the entire outlay on new plant, so that the Government will again have to provide assistance. This extension of capital in the German chemical industry is the third recent instance of such extension on a large scale, the other two being in banking and mining. It is stated that there is no question at present of extending the membership of the chemical combine.

Correspondence

Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Glycerin and Syrup.

SIR,—Panel chemists are indebted to you for the pains taken in your recent article to make clear the position with regard to glycerin and syrup when ordered in Insurance prescriptions otherwise than in preparations affected by any local agreement. Those who have these things in stock will rightly continue to dispense them when properly prescribed, and they will be glad to learn that they are entitled to be paid for them at current rates. In the last circular letter received from the Western Pharmacists' Association we were told that it should not only be understood that N.H.I. prescriptions containing the glycerin and syrup preparations which have been deleted from the British Pharmacopœia should be dispensed with syrupus factitius, B.P.C., but that glycerin or syrup ordered as a component part of a prescription should also be substituted by syrupus factitius. The first part of this statement is inaccurate, inasmuch as glycerin is not always to be replaced by the so-called syrup, and the concluding part of the statement is entirely wrong. The proper course is to dispense glycerin or syrup if in stock; if unobtainable, substitution may be resorted to, and "Subs." should then be written on the prescription after the word "glycerin" or "syrup." I trust the paragraph in the W.P.A. circular does not imply that the London Pricing Office intends to price glycerin and syrup as syrupus factitius in all cases, as that will be seeking for trouble.

Yours faithfully,
JOHN HUMPHREY.

Profits on Proprietaries.

SIR,—At last we have a concrete example of the way the Proprietary Articles Trade Association stands between the manufacturers' and the retailers' interests. Mr. James's letter should be read carefully and studied closely by every chemist before deciding whether the P.A.T.A. in its present form is a blessing or the reverse. It appears that Mr. James's firm wished to offer very liberal terms to induce chemists to push a speciality—eau de Cologne which was mostly advertised by the good will of those who handled it—and at the same time to protect its being sold at face-value. The terms, in short, were 35 per cent. to the retailer and 10 per cent. to the wholesaler on 5*l.* orders, but the conditions of the P.A.T.A. were that the chemists should get 20 per cent. for anything less than 5*l.* worth, while the wholesalers should have the full discounts if they only bought half-a-dozen. Such conditions seem so anomalous and unfair that before passing an adverse opinion I should like to ask Mr. James if he will kindly say if this is a correct interpretation of the terms. Mr. James's letter says 20 per cent. and 10 per cent., with an extra 15 per cent. for 5*l.* Evidently the extra 15 per cent. was intended to encourage sales and to pay for the services of the retail chemists who would have to create the demand. It is a singular coincidence that Mr. James, who is unknown to me, should on the very same day be writing the proof of a contention in my letter of even date—"that the P.A.T.A. by its control may interfere with the freedom of contract between makers and retailers and thus prevent the chemists from buying on the best terms." Among the questions which have been put to the P.A.T.A. Executive is this: What are the privileges and advantages to be gained by retailers who join the Association—*i.e.*, apart from a fixed retail price? But so far no plain answer has been received. "There are complicated conditions which make it difficult to answer by letter." I do not understand these evasions if it is a sound business proposition and the principles equally fair to all parties. It would seem that once an article is placed on the P.A.T.A. the only persons who can hope to buy on best terms are wholesalers, co-operative societies, and multiple-shop companies, who are combined wholesale and retail dealers. It is evident the goods must be placed on the chemist's shelves or sales would be lost. The wholesale houses act as distributing agents, and their charges must be part of the cost of production, and borne by proprietors.

Yours faithfully,
J. J. JACKSON
Hereford. (Chave & Jackson, Ltd.).

SIR,—I have followed the arguments *re* profits on proprietaries, and should like to answer "J. W. D.'s" comments. My business is a small one, and I take stock yearly. Last year I had stock value 270*l.*; this year it is 330*l.* My turnover last year was 1,400*l.*, and I made a profit of 500*l.* in round numbers. I sell 30*l.* of patents monthly, making 8*l.*, or, say, 100*l.* per annum. If I did not sell patents I should have made 400*l.* profit on an expenditure of nearly 400*l.* less. My business is not, as "J. W. D." presumes, a cash one. I have far more credit sales, and the average credit is three months. I cannot see why we chemists allow ourselves to be exploited by any stuff put on the market. A few years ago I had a chat with an English chemist, and he told me he put up a proprietary article, advertised it in papers away from his town, and it sold like wildfire. When it got a bit played out he started another, and so on. His remark was, "Put up anything at all and advertise it, and it will sell." My advice is, stop all the gas and join together in one solid phalanx, pledged to one another not to stock any patent giving less than 25 per cent. profit to the retailer—I mean 25 per cent. on turnover. The proprietors of some really good patents give us that, and some of them more, and they deserve every support. My small experience shows me that the public will pay any price for their pet patent if it is advertised to them at that price, and the makers can, and should, be made to give us a profit. Yours faithfully,

M.P.S.I. (12/18.)

SIR,—"Inquisitive" seems to forget a very important factor. He is writing over a *nom-de-plume*, while I am using my own name, and everyone knows my address. It is not likely that in these circumstances I should give the particulars of my business to an unknown correspondent. If "Inquisitive" will write to me privately and tell me who he is, I shall be happy to arrange to see him and thoroughly discuss with him the whole question. I shall be particularly interested to see a pharmacy in which 25 per cent. of the space is taken up with proprietary articles. As far as my own business is concerned, and my turnover is not a small one, I should say that 5 per cent. of my available space is sufficient to accommodate the patent medicines and proprietaries I handle. I must add that I do not regard "Ucal" goods as patents; the profit and prestige attached to these goods puts them in a class by themselves. Yours faithfully,

180 Philip Lane, Tottenham, N. HUGO WOLFF.

SIR,—The need for a better profit on proprietaries has been very ably demonstrated in your columns during the last few weeks. No retail chemist considers that the profit on this class of goods is sufficient remuneration for his experience and labour. Why not, therefore, individually increase the prices of non-protected preparations to face-value? At the present time, with prices of all goods—luxuries as well as necessities—constantly increasing, the public will freely pay any reasonable price asked, and when once again used to paying full price, it will not, in my opinion, be very difficult to keep up when normal conditions once again prevail. I am a strong supporter of the P.A.T.A., and I am sure that united effort in this direction would be of great assistance to the Association, as well as to the craft as a whole.

Faithfully yours,

CORTEX. (232/44.)

Jay Mack sends us a note regarding a contributor's reference to the tobacco trade. He writes:

"Patent-medicine profits are about double those for tobacco, in spite of the American Tobacco Co.'s latest pronouncements. That company distributed 30 per cent. to shareholders last year, and they grumbled, as the profits earned had been about 50 per cent. Threepenny packets of cigarettes cost 2¾*d.*, 7½*d.* tobacco costs 7*d.*, and 1*s.* 3*d.* packets 1*s.* 1½*d.*"

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Appreciations.

"The *Diary* is a perfect illustration of my conception of multum in parvo."—*T. H.* (238/14).

"I consider the *C. & D.* invaluable to a chemist wherever he may be situated."—*P. A. M.* (Fayoun) (213/73).

"Your indispensable paper. I have saved pounds during the last trying year through information given in the *C. & D.*"—*J. B. O.* (130/12).

"The *C. & D.* is the 'Guiding Light' of the trade, and becomes more enhanced each year. Good luck for another session."—*A. V. H.* (132/1).

Coconut-shells for Beverage Purposes.

"I note in the *C. & D.*, December 29, p. 49, a suggestion to use coconut-shells as a substitute for tea. When I was a boy the teapot was seldom present on the table at breakfast or 'tea' time, except for the 'grown-ups': its place was filled by a 'cocoa' container from which a very palatable and, to my mind, far more wholesome beverage in the nature of a strong decoction was freely dispensed. This was prepared from the husks (or nibs) of the cocoa-bean (*Theobroma Cacao*)."—*H. Corbett Mcyrick, M.P.S.I., C. & D. G.B.*

Trench Candles.

A sergeant in a Canadian Field Ambulance (238/57), noticing a recent reply to a correspondent regarding a substitute for burning-spirit, sends us the following method of making trench candles as given in the "Gateway," a publication of the Students' Union of the University of Alberta:

Spread out four newspapers, eight sheets in all, and begin rolling at the long edge. Roll as tightly as possible until the papers are half rolled, then fold back the first three sheets toward the rolled part and continue to wrap around the roll almost to the first fold, then fold back another three sheets, and continue to wrap around the roll again up to the last margin of the paper. On this margin, consisting of two sheets, spread a little glue or paste and continue the rolling so as to make a compact roll of paper almost like a torch. If six of the sheets are not turned under there will be too many sheets to glue. While the newspapers may be cut along the line of the columns before rolling, and the individual columns rolled separately as is done in the making of the trench candles in France, it is easier to roll the whole newspaper into a long roll and then cut it into short lengths. These little rolls must then be boiled for four minutes in enough paraffin to cover them and then taken out and cooled. In using them see that they are set alight well down the sides. They burn without smoke, and two of them will boil a pint of water or soup in ten minutes. With three of them you can boil water for tea or coffee, cook two eggs, and toast two slices of bread. The cooking utensil is supported on stones, which also protect the flame from the wind.

Dispensing Difficulties and Notes.

A Mixture Mystery.

SIR,—The following mixture when made up by myself and by a friend in another city differs considerably. I should be glad if you can account for the difference in taste and appearance.—Yours very faithfully,

V. E. H. (240/48.)

Liq. pancreatis	ʒj.
Acidi carbol.	♏xxiv.
Sod. bicarb.	ʒj.
Mist. sennæ co. ad	℥vj.

Ft. mist.

One-twelfth part three times daily one hour before food.

[One of the specimens submitted contains a greyish precipitate and the other does not. We shall call that with the precipitate No. 1 and that without No. 2. Both contain practically the same quantity of residue on evaporation. They differ, however, otherwise. No. 1 contains a slight excess of saline matter, but is deficient in vegetable extractive, and not pleasant to taste. No. 2 contains a smaller proportion—a deficiency, in fact—of saline constituents, and a larger proportion of vegetable extractive, and is quite palatable. Neither is quite what it should be. A quantity of the mixture compounded by ourselves from the prescription, with standard material, corresponds with No. 1 in so far as a precipitate is formed—although of smaller amount—after standing for a fortnight; and they both exhibit crystals of magnesium sulphate when exposed for a night to a temperature of 29° to 33° F., an easy procedure on many occasions of late without artificial aid; while No. 2 has not produced any crystals under similar conditions. In point of palatability the mixture prepared by ourselves possesses even a finer flavour than No. 2, and the froth has a richer colour than that of No. 2 after the two have been simultaneously shaken and set side by side. So that, as we have already indicated, both No. 1 and No. 2 could be improved. Apart from the difference in the character of the vegetable materials used in preparing the compound senna mixture the difference between the two mixtures as regards the saline-content and the precipitate is probably accounted for by the stock-bottle for compound senna mixture having been shaken for No. 1 and not shaken for No. 2. The stock-bottle usually contains a greyish sediment after the contents have stood for a time undisturbed, the sediment being mainly magnesium carbonate.]

Legal Queries.

J. C. (238/45), who has on three occasions been rejected for military service on medical grounds, has been given notice to present himself for re-examination. If he is passed for service should he make an application for exemption immediately or wait until he is called to the Colours? Can he lodge his application for exemption before the medical examination? [We believe that an application to the Tribunal for exemption may be lodged at any time before the thirtieth day after the date of the notice requiring him to present himself for further examination; and that the application may be lodged before the medical examination. We suggest that "J. C." should go to his local Tribunal and make inquiries with regard to any points upon which he is in doubt.]

G. P. (226/53) has for some years held a house on a yearly agreement, which provides that the tenancy may be terminated by six months' notice given on November 11 in any year. He has each year given "provisional" notice of his intention to quit, but has so far remained in occupation of the premises. On November 11 last he again gave a "provisional" notice terminating the tenancy, which was not acknowledged by the landlord. Subsequently "G. P." informed his landlord that the notice should be regarded as definite. The landlord declines to accept the notice. "G. P." has no copy of either the agreement or the notice; how does he stand? [A notice terminating a tenancy is not valid unless it is clear and definite, and without knowledge of the form of the notice in question it is impossible to say whether it was operative or not. As, however, it was of a "provisional" nature it is probable that it was not effective, and that the landlord is within his rights in declining to accept it. In that case the tenancy cannot now be terminated by "G. P." except by giving six months' notice on November 11 next, in accordance with the terms of the tenancy agreement.]

B. G. W. (224/37) has an earned income of 190*l.*, and he and his wife have a joint income from house property of 120*l.* 10*s.* He pays income-tax at 5*s.* in the £ on this property, "less relief to the owner under Section 26 of the Finance Act, 1916, of 9*l.* 2*s.*" He is allowed an abatement from earned income of 120*l.*, as well as 15*l.* for premiums on life insurance, and 25*l.* as an allowance for a child. He also has an endowment policy of about 320*l.*, including bonus, upon which there is a loan of 220*l.*, and the balance of 100*l.* will be payable to him in August next, when the policy matures. He asks whether income-tax will have to be paid on this 100*l.*, and what is his position as regards it. [Income-tax is not chargeable on the 100*l.*, as it is a capital sum, and "B. G. W." need not enter it on his income-tax return. "B. G. W." appears to be overcharged on his house-property income. So far as this represents ground-rent which has to be paid to the owner, income-tax has to be paid at 5*s.* in the £ on it. "B. G. W." must pay that in the first instance to the income-tax collector, and he can deduct whatever he has paid in this way from the next payment of ground-rent he makes to the owner. So far as the income from the property comes to "B. G. W." or his wife, the proper rate of income-tax chargeable on it is 3*s.* in the £, and any tax beyond that may be recovered if it has been already paid.]

Rex (223/17) has an income of 217*l.* 17*s.*, made up of profits from trade or business, 200*l.*; interest on investments, of which a part is taxed before he receives it, 17*l.* 10*s.* He is allowed an abatement of 120*l.*, pays life insurance, the annual premium on which entitles him to abatement of 36*l.* 5*s.*, and has three children, for whom there is an allowance to be deducted of 75*l.*, making a total of 231*l.* 5*s.* He has certificates for tax deducted from his investments at 5*s.* in the £ amounting to 1*l.* 18*s.* 6*d.*, and has applied to the income-tax authorities to be repaid this. They refuse to pay more than 17*s.*, and ignore his letters which are addressed to them. "Rex" is short-handed owing to the war, and he cannot go to see the local Surveyor of Taxes on the matter. [On the figures given "Rex" is entitled to exemption from the tax, and he ought therefore to be repaid the tax which was deducted from the interest on his investments. We assume that the allowance claimed by him in respect of insurance policy premiums has been admitted by the authorities. If not admitted, the claim may not be well founded. Under the Finance Act, 1915, a limit was put to the relief which a person is entitled to under this head. The relief must not be more than 7 per cent. of the actual capital sum assured, without taking account of any bonus or other sum payable. We advise "Rex" to write, giving particulars of his claim, to the Secretary, Stamps and Taxes, Custom House, Dublin.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

H. J. (225/31).—Russell's "Book of the Rothamsted Experiments" is published by Murray at 10*s.* 6*d.* See also *C. & D.*, January 12, p. 41.

J. G. E. (235/1).—GOLD PAINT.—The following is from "Pharmaceutical Formulas":

Mix 1 oz. of bronze-powder with one pint of any of the following:

(1) Resin 1 oz., benzine 20 oz.
(2) Celluloid ½ oz., amyl acetate 20 oz.
(3) Gold size and turpentine equal parts.
(4) Gold size and spirit equal parts.
(5) Borax-shellac solution 2½ parts, spirit 1 part.

Ensure that the base is free from acidity by shaking with chalk, and decanting before mixing the liquid with the bronze.

H. J. L. (Penang) (235/20).—LIQUOR BISMUTHI.—The difficulty you refer to in the manufacture of liq. bismuthi, B.P., was mentioned by Mr. F. Penfold in a communication to the North British Branch of the Pharmaceutical Society of Great Britain. This is reported in the *C. & D.*, December 16, 1916, p. 45, the improved directions being designed to overcome the defects of the official process. The amount of ammonia needed is also indicated.

Gregory (253/11).—BOOK ON FIBROSITIS.—Since the reply to your inquiry was printed in the *C. & D.*, January 12, p. 52, we have received information from a subscriber which supplies what you require. The book is Llewellyn and Jones's "Fibrositis, or Muscular Rheumatism," published by Heinemann at 25*s.* It is described as a classic and the last word on the subject. Mr. D. A. Evans (Steele & Marsh), Bath, who sends us the information, and who writes enthusiastically of the work, has taken a part in the pharmacy of the treatment there recommended.

Northumbria (236/49).—HEMLOCK PITCH is the resinous exudation from hemlock. It is also known as Canada pitch from the land where it is collected. It is practically identical with Burgundy pitch for all purposes.

W. N. (236/71).—BLACKHEADS OR COMEDONES.—Squeeze out the hardened secretion of the sebaceous gland by means of the tube of a watch-key, then apply the following lotion, which has been highly recommended in the *C. & D.* for the purpose:

Crystallised alum,		
Salt,		
Sublimed sulphur	...of each	1 oz.
Sugar-candy,		
Spermaceti ...	...of each	2 dr.
Elder flower-water,		
Distilled water ...	...of each	3 oz.
Brandy	...	10 oz.

Reduce the solids to fine powder and rub up with the mixed liquids.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Jan. 15, 1868.

Dr. Dewar's Vulcanite Spray Producer.

This apparatus is described in Dr. Dewar's pamphlet "On the Application of Sulphurous Acid, gaseous and liquid, to the prevention, limitation, and cure of Contagious Diseases." The employment of sulphurous acid in the form of spray was first recommended by the Kirkcaldy physician in 1866, and constitutes the most important feature of his system of treatment. Many medical men have used the spray in cases of diphtheria, bronchitis, catarrh, etc., and have testified to its remarkable alterative powers. The acid employed should be pure (Brit. Pharm.), and care should be taken that the direction of the points of the tubes is not disturbed, the one opening blowing exactly over the other. The Spray Producer as manufactured by Mr. David Storrar, of Kirkcaldy, consists of a vulcanite odorateur tube inserted in a bottle of strong sulphurous acid. A constant current of air, impelled by a double india-rubber ball, as in Dr. Richardson's spray producer for local anæsthesia, raises a minute jet through the odorateur tube, and propels it against the throat or wherever else it may be wanted.

"YADIL" Antiseptic

REGD. TRADE MARK.

Syn.: Tri-methenal allylic carbide compound.

For Internal and External Antisepsis.

"YADIL" Antiseptic has been adopted in a large number of hospitals and sanatoria for the internal and external treatment of diseases of micro-organic origin.

Medical Practitioners in all parts of the country are now prescribing "YADIL" Antiseptic, and complaints reach us that many Chemists are unable to supply. **A lost sale often means a lost customer to the Chemist.**

The leading London wholesalers are now keeping "YADIL" Antiseptic regularly in stock, and progressive wholesalers in the provinces and Scotland are beginning to stock it also. Chemists should order it from their regular wholesaler, **and insist upon it being supplied promptly.**

Supplies may be obtained by return post from us to meet urgent needs, and in such cases the name of wholesaler to whom chargeable should be indicated.

Chemists should not wait until prescriptions have to be filled to order "YADIL" Antiseptic from their wholesalers. They should put in stock at least one bottle each of the two smaller sizes, 2-oz. and 6-oz., in order not to delay a customer. **One prescription filled promptly will mean further repeats.** Hence the advantage of having a stock on hand, as suggested.

Medical Literature is sent direct to Medical Men only, and not to Chemists.

PRICES:

Sizes	2 oz.	6 oz.	20 oz.	40 oz.	
Retail prices -	**1/6**	**3/-**	**8/9**	**16/-**	each.
Chemists' prices	**13/6**	**27/-**	**78/-**	**144/-**	per doz.

SOLE PROPRIETORS & MANUFACTURERS:

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19 Sicilian Avenue, London, W.C. 1.

Orders from abroad should be placed through London buyers, as we do not open accounts abroad during the war.

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Sold by the following Wholesale Druggists in Boxes of 7 lbs. and 14 lbs. stamped by the Manufacturers; also in 1-lb. Boxes and 1-lb. Glass Bottles :—

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Baiss Bros. & Company (Lim.)
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Burgoyne, Burbidges & Co.
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Clay, Dod & Co.
Cockburn & Co. (Lim.)
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Evans Sons Lescher & Webb (Lim.)
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Gale & Co.
Glasgow Apothecaries' Co.
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Harker, Stagg & Morgan (Lim.)
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Hatrick, W. & R., & Co.
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Lehn & Fink, New York.
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HUBBUCK'S PURE OXIDE

Is made by Sublimation, and is Warranted to contain upwards of

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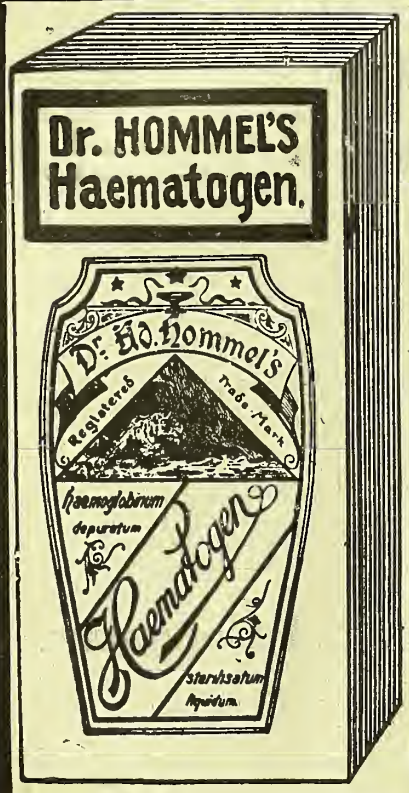

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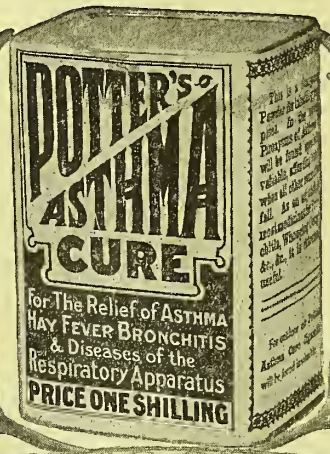

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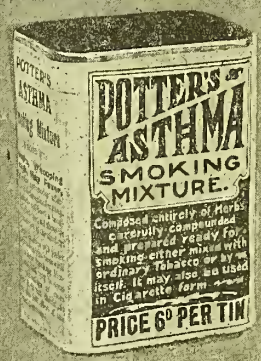

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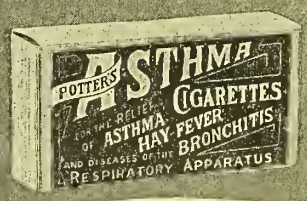

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*Acet. Ipecac., B.P., 6 lbs. @ 2/1 lb.
„ Scillæ, P.B., 6 lbs. @ 7d. lb.
Acid. Acetylo-Salicyl. 1 lb. @ 18/- lb.
„ Benz, B.P., 1 lb. @ 17/6 lb.
„ Boric Pulv., 3 cwt. @ 71/- cwt.; 1 cwt. @ 73/6 cwt.; levigd. cwt. or lb. extra.
„ Carbol. Xtls., 39/40; 56 lb. drums @ 1/11 lb.; 12 1-lb. Bots. @ 2/3 lb.; Single Bots. @ 2/6 lb.; Detached Cryst. 1 lb. @ 2/8 lb.; Crude Black, 45 gall. casks @ 1/11 gal.; 5 gal. drums @ 2/10 gall.; 1 gall. tins @ 3/2 each.
„ Citric, cryst., B.P., '85, 7 lbs. in bags @ 3/6 lb.; powder, ½d. lb. extra.
„ Diethylbarbituric, 1 oz. @ 9/6 oz.
„ Gallic, pur., P.B., 7 lbs. @ 6/9 lb.; 1 lb. @ 7/- lb.
„ Hydrobrom. 6 lbs. @ 1/6 lb.
* „ Hydrocyan. P.B., 6 lbs. @ 1/7 lb.; 1 lb. @ 2/- lb.; 36 1-oz. Vials @ 7/6 doz.
„ Oxalic Cryst., 1 cwt. @ 1/11½ lb.; 14 lbs. @ 2/1 lb.
„ Phosph. Dil. B.P., 6 lbs. @ 6d. lb.
„ Salicyl. pulv. 1 lb. @ 8/6 lb.
„ Sulph. Aromat. B.P., 5 lbs. @ 4/8 lb.
„ Tannic. B.P., 1 lb. @ 8/9 lb.
„ Tart., cryst. or pulv. B.P., 1885, 7 lbs. @ 3/4½ lb.; parv. ½d. lb. extra.
Aloes Barb., English-ground, 28 lbs. @ 125/- cwt.; 7 lbs. @ 1/3 lb.
Aloes, Socot. 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/7 lb.
Aloin, B.P., 1 lb. @ 5/6 lb.
Ammon. Benz., 1 lb. @ 25/- lb.
Ammon. Brom. P.B., 7 lbs. @ 6/4 lb.
Ammon. Carb. lump, 3 cwt. @ 8½d. lb.; 28 lbs. @ 9½d. lb.; 7 lbs. @ 10d. lb.; powder, ½d. lb. ex.
Ammon. Chlor., 99% pulv., 1 cwt. @ 80/- cwt.; 7 lbs. @ 9½d. lb.; Batteries, 6/- cwt. extra.
Aniseed, English ground, 1 cwt. @ cwt.; 7 lbs. @ 1/10 lb.
Antim. Nig. Pulv., 7 lbs. @ 11d. lb.
Antim. Tart. Pulv., 7 lbs. @ 4/- lb.
Apiol, 1 lb. @ 27/6 lb.
*Aqua Anethi Conc. 1-40, 1 lb. @ 3/10 lb.
* „ Anisi Conc. 1-40, 1 lb. @ 3/10 lb.
* „ Aurant. Conc. 1-40, 1 lb. @ 7/11 lb.
* „ Aurant. Trip., 6 lbs. @ 1/- lb.; 53 lbs. for 45/-
* „ Cinnam. Conc. 1-40, 1 lb. @ 4/3 lb.
* „ Laurocerasi, 6 lbs. @ 10d. lb.
* „ Menth. Pip. Conc., 1-40, 1 lb. @ 3/11 lb.
* „ Rosæ Conc. 1/40, 1 lb. @ 8/3 lb.
* „ Rosæ Trip., 53 lbs. for 50/-; 6 lbs. @ 1/1 lb.
* „ Samb. Conc., 1-40, 1 lb. @ 7/1 lb.
* „ Samb. Trip., 6 lbs. @ 1/- lb.
Argent. Nit., 6's to oz., 25 oz. @ 3/1 oz.; 1 oz. @ 3/2 oz.
Argent. Nit., Cryst., 25 oz. @ 3/- oz.; 8 oz. @ 3/1 oz.
Arsenic, Alb. Pulv., 2 cwt. @ 165/- cwt.; 7 lbs. @ 1/7 lb.
Atropinæ Sulph., P.B., 1 oz. @ 135/- oz.

*Balsam. Copaibæ, pure, 44 lbs. @ 5/6 lb.; 9 lbs. @ 5/9 lb.; 1 lb. @ 5/11 lb.
„ Peruv., P.B., 1 lb. @ 21/6 lb.
„ Sulphur, 7 lbs. @ 2/6 lb.
„ Tolut. B.P., 50 lbs. @ 5/8 lb.; 1 lb. @ 6/- lb.
Bismuth, P.B., Carb., 3 lbs. @ 14/- lb.; 1 lb. @ 14/6 lb.; subnit., 3 lbs. @ 13/- lb.; 1 lb. @ 13/6 lb.
„ Salicyl., 1 lb. @ 19/- lb.
Boracic Mixture, 1 cwt. @ 95/- cwt.
Borax, 1 cwt. @ 44/6; powder 1/- extra.

Caffeine, P.B., 1 lb. @ 54/- lb.
Caffeinæ Cit., B.P., 1 lb. @ 37/- lb.
Calamina, powder, fine pink, 5 cwt. @ 32/- cwt.; 1 cwt. @ 35/- cwt.; 7 lbs. @ 4½d. lb.
Calamine, B.P., 1835, 7 lbs. @ 1/3 lb.
Calcii Carb. Præcip., 5 cwt. @ 28/6 cwt.; 1 cwt. @ 32/- cwt.; 28 lbs. @ 36/- cwt.
„ Hydras., P.B., 1 cwt. @ 32/- cwt.; 7 lbs. @ 5½d. lb.
„ Hypophosph. Pur., P.B., 1 lb. @ 4/- lb.
„ Iodid., 1 lb. @ 21/6 lb.
Camphor, English Flowers, "not artificial," 5 lbs. @ 4/1 lb.; ½ oz. or ¼ oz. 7 lbs. @ 4/9 lb.; good white, about 95% as imported, 140 lbs. @ 3/10 lb.; 28 lbs. @ 3/11 lb.
Capsicine, soluble, 1 lb. @ 9/6 lb.
Carbo Animalis or Ligni, powder or lump, 1 cwt. @ 30/- cwt.; 28 lbs. @ 3½d. lb.
Cardamoms, 28 lbs. @ 2/6 lb.; 7 lbs. @ 3/- lb.
Carmine, Finest, 1 lb. @ 36/- lb.; No. 2, 1 lb. @ lb.
Cera Alba, B.P., White Moons, 28 lbs. @ 2/9 lb.; 4 lbs. @ 2/10 lb.; Flav. 1 lb. Blocks, 28 lbs. @ 2/5 lb.; 4 lbs. @ 2/6 lb.; 1 oz., ½ oz. tabs., 7 lbs. @ 2/7 lb.
Cerii Oxalas, 1 lb. @ 6/6 lb.
Cetaceum, No. 1, fine white, 64 lbs. @ 1/2 lb.; 7 lbs. @ 1/4 lb.; powder, 7 lbs. @ 1/9 lb.
Chloral Hydras Cryst., B.P., 7 lbs. @ 11/9 lb.; 1 lb. @ 12/6 lb.
Chlorodyne, 5 lbs. @ 3/3 lb.
*Chloroform, pure, B.P., 12 8-lbs. @ 4/10 lb.; 8 lbs. @ 5/1 lb.; 6 1-lb. bots. @ 5/4 lb.
Cocaine Hydrochlor., 1 oz. @ 50/-.
Codeina, 1 oz. @ 34/- oz.; Phosph., 1 oz. @ 30/- oz.; Hydrochlor. or Sulph., 1 oz. @ 30/-
Colocynth, Apple, English ground, 1 cwt. @ 1/8 lb.; 28 lbs. @ 1/9 lb.; 7 lbs. @ 1/10 lb.
Composition Powder, 1 cwt. @ 80/- cwt.; 7 lbs. @ 11d. lb.
Conf. Sennæ, P.B., 14 lbs. @ 1/5 lb.; 7 lbs. @ 1/6 lb.
Cream of Tartar, 98% powder, 1 cwt. @ cwt.; 7 lbs. @ 3/6 lb.
Creta c. Camph., 7 lbs. @ 1/1 lb.
„ Gall. Pulv., in sacks, 10 cwt. @ 18/6 cwt.; 1 cwt. @ 21/ cwt.; 14 lbs. @ 3d. lb.
„ Præparata, 7 lbs. in box @ 1/4 each.
Cubebæ, English Ground, 28 lbs. @ 4/10 lb.; 7 lbs. @ 5/- lb.

*Dec. Aloes Co. Conc. 1-2 6 lbs. @ 2/2 lb.; Sinecroco, 6 lbs. @ 1/4 lb.
* „ Cinchonæ (Rubræ) Conc., 1-7, 6 lbs. @ 2/4 lb.
* „ Senegæ Conc., 6 lbs. @ 3/- lb.

*Minimum quantity at these prices; Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

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"TUBELETTE"
MENTHOL & WINTERGREEN CREAM

From JANUARY 1, 1918.

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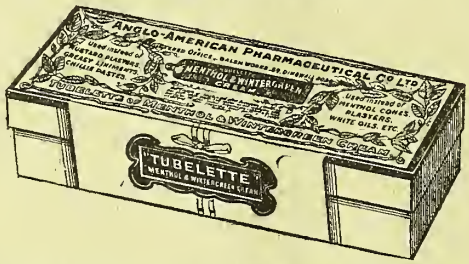

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NOTICE.—*Any retail or wholesale chemist can on written application obtain printed slips for attaching to any old stock on hand stating the present advanced price.*

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ESTABLISHED 1846.

OTHER SPECIALITIES:
Refined Camphor, Iodides, Iodoform, Iodethymol, Bromides, Bromoform, Bismuth Salts.
CACODYLATES, METHYLARSENATES.

SOLE AGENTS FOR U.K.: **W. CHARITY & SONS, 14 Harp Lane, LONDON, E.C. 3.**

Telephone: Avenue 4359. (WHOLESALE ONLY.) Telegrams: "Charity London." Codes: A B C, and LIEBER'S.

NO. 2.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, JANUARY 26, 1918

This Supplement is Inserted in every number of The Chemist and Druggist.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—SURREY.—Well-established Business, situate in a pleasant locality much frequented by visitors; position unique; returns upwards of £2,400, and offers scope for development under energetic management; net profit £553; in present hands 38 years; price £1,500.

2.—HYDE PARK CORNER (near).—Lock-up Pharmacy; Retail and Dispensing; returns £1,200; gross profit about £700; books open to inspection; vendor, having taken up another business, will make some sacrifice for a speedy transfer.

3.—HOME COUNTY.—Good-class Dispensing and Retail Business, producing a net income of £500 per annum; terms, valuation of stock and fixtures, and premium for lease and goodwill.

4.—KING'S CROSS (within easy distance of).—Old-established Business in good position in populous district; the net income is £386, and under energetic management can be increased; good house; rent £50; price £600.

5.—BLACKHEATH.—Ready-money Business, situate in close proximity to Railway Station; returns £900; no N.H.I. Dispensing; comfortable house and garden; about £450 required, or £50 and valuation; part payment.

6.—KENSINGTON.—Good-class Retail and Dispensing Business for disposal through death; returns £800, formerly £1,000; excellent opening for an energetic man with small capital; comfortable residence; new lease; full investigation is invited; price £400, or valuation of stock and fixtures.

7.—LONDON, S.W.—To be sacrificed for £500, Stock and Fixtures, having recently been valued at £730; returns between £1,500 and £2,000, and steadily increasing; attractive shop and good residence; situate in pleasant residential locality.

8.—PARTNERSHIP.—A Partner required in a very old-established Business, situate in a Home County; returns last year exceeded £4,000; excellent opening for an energetic man to succeed to the whole within a few years; valuation terms entertained; a portion of the purchase money could remain.

9.—BRISTOL CHANNEL.—Good-class Retail and Dispensing Business, situate in popular health resort; returns average over £1,200; net profit, after all expenses paid, £300; rent £55; price about £950, estimated value of stock and fixtures.

10.—TUNBRIDGE WELLS DISTRICT (practically no opposition).—Good Middle-class Retail; established many years; gross receipts £850; scope for development under energetic management; net profit over £250; well-appointed shop and modern residence, with garden stocked with fruit and rose trees; valuation terms entertained.

11.—BRIGHTON.—Ready-money Business; returns average over £900; good opening for extended trade under qualified management; price £620, or near offer.

12.—OXON. (Market Town).—Good-class Business, Retail, Dispensing, and Photographic, with small Mineral Water Plant; returns average over £1,000 yearly; scope for development; good position in main thoroughfare; valuation terms entertained.

13.—SURREY.—County Business of good-class for disposal; returns between £1,000 and £1,100 at best prices, yielding about £300 net profit; situate in one of the best positions, and capable of increase under energetic management; price £700.

14.—YORKS.—Good-class Retail and Dispensing Business; established many years; returns between £900 and £1,000; profits good; large residence with private entrance; vendor will accept valuation of stock and fixtures.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BUSINESSES FOR DISPOSAL

2s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

HULL.—For Sale by the Executors, old-established Family and Dispensing Chemist's Business, lately carried on by Mr. T. W. Robinson at 233 Anlaby Road, Hull, including Stock, Fittings, Fixtures, Window Enclosures, Cases, Patents, Drugs, Sundries, etc., by valuation; corner site; shop and residence, or as a lock-up shop; £40 and rates. Apply Richard Davis, Solicitor, 29 Silver Street, Hull.

KENT (Suburb).—A good-class Business in an attractive neighbourhood for disposal, doing £1,400, and increasing; net profit £360; books kept and audited, owner entering medical profession; rent £70; part let off; modern premises; price £750; part could remain. Apply 2/15, Office of this Paper.

LANCASHIRE.—Good-class Retail and Dispensing (private and N.H.I.) Business for disposal; handsomely fitted Pharmacy in high-class residential locality; price required £500; fullest particulars furnished on application. Address 275/10, Office of this Paper.

LONDON, N.—Shop, d.f. Chemist's; completely and well fitted; established over 20 years; chance to pick up good business cheap; rent £60. Owner, 160 Stoke Newington Road, N.

LONDON, S.W.—Genuine Business for Sale in good residential locality; returns £1,900, increasing yearly; proprietor will manage for a time if necessary; about £500 required. Apply 3/4, Office of this Paper.

MANCHESTER (Suburb).—Old-established Chemist's Business; shop and residence; rent £40; late proprietor dead, widow retiring; returns £1,000; cash business; full investigation; stock and fittings about £400, or valuation; early sale desired; low price will be accepted. Apply William Walker, Solicitor, 20 Cross Street, Manchester.

BERDOE & FISH

VALUERS & TRANSFER AGENTS,

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—HERTS (Market Town).—Most desirable Light Country Retail; easily worked; returns about £900; good profits; excellent house, bathroom, etc.; very best position, well stocked; price for prompt sale, £400, or near offer.

2.—KENT (Suburb).—Good progressive Middle-class Business; no booking; returns £1,850; *net profit* £450; books properly kept; convenient house; handsome Pharmacy, heavily stocked; price £50 and valuation; about £1,000; strongly recommended.

3.—NORTH WALES COAST.—Unopposed, sound Light Retail, returning £700; *net profit* £250; up-to-date Pharmacy, well-fitted and stocked; price £300 or valuation.

4.—LEICESTERSHIRE.—Sound Cash Drug Store in small town; returns average £630; *net profit* £200; good house and Pharmacy, well stocked; price £300 or valuation.

5.—WEST END.—High-class Dispensing business in prominent position; returns average over £2,000; *net profit* £620; excellent chance for two smart men; price for quick sale £950, or small goodwill and valuation.

6.—LONDON, S.W. (Good Residential Suburb).—Sound, progressive, good-class Business; returning over £1,900; main road position; good residence; attractive Pharmacy; well stocked; price for quick sale £500; only requires seeing.

7.—NORTH LONDON (Healthy Suburb).—Sound progressive Cash Business for immediate disposal through serious illness; returns £1,150; *net profit fully* £300; fine modern Pharmacy; excellent main road position; low rent; price £750 or offer.

8.—ESSEX (Suburb).—Cash Retail and Prescribing; no N.H.I.; returns £17 to £18 weekly; *net profit* £7 a week clear; modern Pharmacy; well stocked; price about £500.

STOCKTAKINGS.

Appointments for stocktakings and valuations should be made early, having only a few open dates between now and the end of March. Full particulars and terms sent on application.

MESSRS.

TOPLIS & HARDING

AUCTIONEERS (Established 1790),

Beg to announce that their next

SALE BY AUCTION

OF

CHEMICALS, DRUGS,

Chemists' & Druggists' Sundries,

ANILINE DYES,

AND

DRYSALTERY GENERALLY

will take place at the

LONDON COMMERCIAL SALE ROOMS, E.C.,

On WEDNESDAY, FEBRUARY 13, 1918.

NOTE.—Saleable Stocks of any description may be included if immediate notice be given to the Auctioneers.

Catalogues and terms may be obtained upon application to the AUCTIONEERS' OFFICES, 27/28 Old Jewry, E C. (and at Manchester).

Telephone: City 8217. Telegrams: "Toplis, London."

MIDLANDS.—Splendid business, increasing weekly; on tramway route; rent and rates only 8*s*. per week; two bedrooms and attic above shop, cellar and large store at back; cash takings over £20 per week; Insurance scripts last year over 6,000; only a few yards from large new war industry factory, nearly completed; good reasons for selling. Apply 1/1, Office of this Paper.

DEATH VACANCY.—The old-established Business of the late Mr. George Wright, Chesterfield, carried on by him for over 30 years; sound connection; excellent and profitable turnover; expenses small; price, valuation. Apply Exors., o/c W. Brinson, The Laurels, Chesterfield.

FOR Immediate Disposal.—First-class Pharmacy, North London; excellent possibilities for increased business; modern fittings; well stocked; splendid central position; low price for quick sale. Apply 2/35, Office of this Paper.

£100.—This small amount will purchase the Fittings and Stock of a large corner shop in a very pleasant locality; owner called up, must sell at once; business neglected; under qualified man did £1,000 first year; good house; low rent; fittings alone cost £250; as good as new. Apply 280/8, Office of this Paper.

PROPERTY FOR SALE.

TO CHEMISTS AND OTHER INVESTORS.

NEWPORT, SALOP.

VALUABLE OLD-ESTABLISHED BUSINESS PROPERTY.

MESSRS. POOLER, DAVIES & WHITE will offer for Sale by Public Auction, on FRIDAY, the 1st day of February, 1918, at the Royal Victoria Hotel, Newport, Salop, at 5 p.m., and subject to conditions:—

The centrally situated FREEHOLD PROPERTY now in the occupation of Mr. J. H. Llewellin, Chemist, having a commanding position in High Street, Newport, Salop, comprising Dwelling House, Shop, Outbuildings, and large Garden. Town Water and Gas.

A Chemist's Business has been carried on here for nearly a century. Vacant possession on completion.

Further particulars may be obtained from Messrs. Liddle & Heane, Solicitors, or the Auctioneers, Newport, Salop.

AGENCIES.

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EGYPT.—French Representative established in Egypt since 1910, having wide experience and a first-class connection among Chemists and Druggists, is prepared to represent English Manufacturing Chemists and Druggists and makers of Pharmaceutical and Toilet Specialities; high-class references to English and French Houses for which agencies in force. Reply to P.O. Box 1505, Cairo, Egypt.

A PATRIOTIC AND PROFITABLE AGENCY.

AN old-established English Manufacturing Company invites inquiries from qualified Chemists only who are able effectively to handle the sale in their districts of three well-known advertised specialities for increasing the yield of potatoes and fruit, and recognised by all professional growers as essential to increased food production. The goods are cleanly and attractively packed in tins and kegs, are safe and convenient for shop storage, are capable of effective display, and, most important of all, meet a demand which from spring to autumn is insistent, and through Government encouragement will be still more so this year. These specialities are as necessary to the allotment holder or owner of a few fruit trees as to the big market grower or farmer, because without them each suffers actual loss of crops. They will be advertised through the Gardening, Food Production, Farming, and Fruit-Growing Press, while attractive printed matter for distribution and shop display will be supplied to all Agents. Applications should be addressed to P. G., Box 342, c/o Mitchell's Advertising Agency, 1 Snow Hill, E.C. 1.

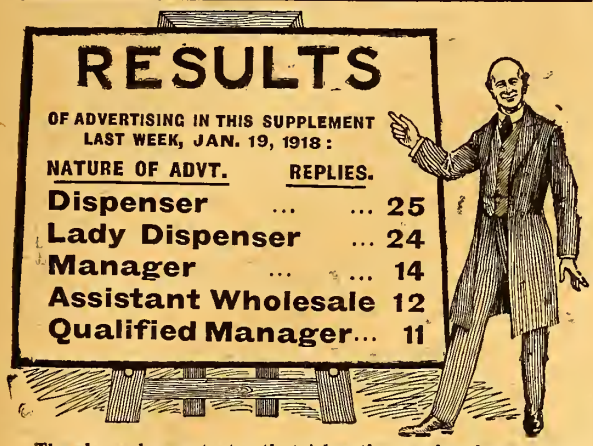
FOR SALE.

OVERSTOCKED.—10 doz. Ingram's Enemas, 22*s*. 6*d*. boxed complete; sample 2*s*. Davies, 9 Electric Parade, Holloway, N. 7.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**



The above demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

BIRMINGHAM (Suburb).—Young lady Assistant required for good-class Light Retail and Dispensing business; comfortable and permanent berth. "P. R." (281/362), Office of this Paper.

BOURNEMOUTH (near).—Qualified Assistant, lady or gentleman, for good-class Retail and Dispensing; easy hours. Cartledge, Chemist, Parkstone, Dorset.

BRIGHTON.—Middle of February, competent Assistant; used to good-class Dispensing business; outdoors. State salary required and all particulars to Watts & Co., 114 Church Road, Hove.

CARDIFF.—Qualified Manager; outdoors. Apply, stating age and enclose photo, with two last references, Frank Edwards, 46 Cardiff Road, Llandaff.

EASTBOURNE.—Wanted (at once), lady or gentleman Junior Assistant (outdoors) for high-class Dispensing business. State salary with usual particulars, enclosing cartes, to H. R. Browne, Pharmaceutical Chemist, Eastbourne.

EXETER.—Wanted (at once), for Exeter, competent Assistant (male or female). State experience, references, and salary required, Hinton Lake & Son, Ltd., 41 High Street, Exeter.

GLOUCESTER.—Assistant required (male or female); outdoors; good-class Dispensing and Light Retail. State full particulars, with salary, to Ward & Woodman, Gloucester.

HASTINGS.—Lady Assistant required (outdoors) in high-class Dispensing and Retail Pharmacy; must have previous experience in Dispensing and Retail. Apply, stating references, experience, and salary required, to Neve & Co., Proprietor: Harold E. Skyrme, 12 Wellington Place, Hastings.

LONDON, N.W.—A reliable Assistant (qualification not absolutely essential) in a Family, Retail, and Dispensing business; one desiring permanency preferred; good Dispenser and Counterman; full particulars *re* references, experience, and salary (outdoors) in first letter; one desiring an interest therein would be treated with. Apply "Alpha" (1/35), Office of this Paper.

LONDON, S.W.—Young lady required for high-class Pharmacy; must be a capable Dispenser; comfortable and permanent berth. "K. R." (281/364), Office of this Paper.

LONDON, S.W.—Assistant wanted (at once); outdoors; well up in Photography and capable Window-dresser; permanency. Apply, giving full particulars, to Durbin, 131 High Street, Putney, S.W. 15.

LONDON, S.W.—Wanted (at once), lady Assistant; outdoors. Apply, with full particulars and salary required, to S. S., 436 High Road, Streatham Common, S.W. 16.

LONDON, S.W.—Qualified Manager for good-class Dispensing and Family business; comfortable berth; progressive salary; must be ineligible; smart appearance, and good business man. Full particulars, experience, age, height, when disengaged, salary required, to Toyne, 26 High Street, Putney.

LONDON, W.—Required (now or shortly), a capable, businesslike Assistant, about 30, as first hand; must be of good appearance and address, and a first-rate Counterman; outdoors; permanency. W. V. Wright, 25 Broadway, Hammersmith.

LONDON, W.C.—Qualified Chemist, ineligible for military service, required for quick cash business. Apply by letter, giving full particulars and salary required, "R." (2/18), Office of this Paper.

LONDON (near).—Chemist, having a high-class business, requires capable young lady Assistant; must be a good Dispenser; permanency. "H. S." (281/36), Office of this Paper.

LONDON SUBURB.—Wanted, for middle of February, an experienced and reliable Assistant for N.H.I. Dispensing and quick Cash Retail; must be well recommended; a good salary for suitable man. Apply to Davy, Chemist, Edmonton, N. 18.

MANCHESTER.—Assistant Dispenser, quick and accurate, in busy working-class district; comfortable post for the right person. State full particulars, salary, and references to H. Bellringer, 20 Great Clowes Street, Manchester.

MANCHESTER.—Qualified Manager required for business in a working-class district; permanent berth, with a liberal interest in the profits offered. "T. S." (281/361), Office of this Paper.

NORTH WALES COAST.—Qualified lady or gentleman (ineligible) for usual Retail and Dispensing business; hours 8.30 to 7.30, half-day off weekly. Apply, with full particulars, salary required (outdoors), Rogers Jones, Llandudno Junction.

SALISBURY.—Capable Assistant, either sex, mostly for Counter work, Atkins & Son, Pharmacists, Salisbury.

SHEFFIELD.—Lady Assistant (Dispensing department); hours 9 to 7, Thursdays 1, Saturday 8.30. State age, height, experience, qualification, and salary required (photo if possible), G. T. W. Newsholme, Ltd., 27 High Street, Sheffield.

SOUTH OF ENGLAND; Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SWANSEA.—Wanted, an ineligible, unqualified, active Assistant (immediately) in high-class Pharmacy. Full particulars in first letter, J. T. Davies (Chemists), Ltd., 8 Temple Street, Swansea.

SWANSEA.—Wanted, an experienced lady Dispenser, also Counter work, in high-class Pharmacy. Full particulars in first letter, J. T. Davies (Chemists), Ltd., 13 Walter Road, Swansea.

TAUNTON.—Unqualified Assistant wanted (ineligible) for Retail and Dispensing business. Apply, stating full particulars, to Gregory & Wrenn, Ltd., Chemists, Taunton.

THETFORD, NORFOLK.—Wanted (immediately), qualified Assistant-Manager; one discharged from the Army or one over military age preferred; very easy hours, half-day closing, half-hour Sunday duty once fortnight; comfortable house if required; must be well recommended. Apply, with age, experience, salary required, to Aspland, 34 Castle Street Thetford, Norfolk.

WEYBRIDGE.—Wanted, lady Assistant, chiefly for Dispensing Counter; outdoors. Kindly give particulars, experience, age, salary, etc., and enclose photo if possible, Amos & Ashworth, Church Street, Weybridge.

YORKSHIRE (West Riding).—Unqualified Assistant of good experience; must be over military age; comfortable permanency. State age, whether married, and salary required, "H. D." (281/363), Office of this Paper.

YORKSHIRE (West Riding).—Good opening for smart, energetic, unqualified Assistant; must be a first-class Counterman and Dispenser; permanent and progressive post. "W. R." (246/1), Office of this Paper.

A QUALIFIED Assistant required for country business; easy hours and light duties; suitable for one partially disabled, or seeking semi-retirement. Full particulars, Shearman, 17 High Street, Haverhill, Suffolk.

ASSISTANT, with good Dispensing experience, for whole or part time; provincial town, where there is a Pharmacy School; may have mornings off. Apply 3/6, Office of this Paper.

CHARLES MIDGLEY, LTD., 4 Exchange Street, Manchester, require a Branch Manager; also a Senior Assistant. State experience, age, salary required.

COMPETENT Dispenser for relief work on Sunday (and Thursdays later) at a Doctor's Surgery; good remuneration to capable man. Apply by letter only, with full particulars, to "Surgery," 24 Osborn Street, Whitechapel, E. 1.

DISPENSER wanted; qualified or unqualified; male or female; used to panel Doctor's file; discharged Naval Dispenser preferred. Write Doctor, 55 Commercial Road, E.

ELDERLY, unqualified Assistant, principally for Dispensing; about 6 to 8 hours daily; middle-class business. Please give full particulars in first letter, Coles, Pharmacist, 257 Holdenhurst Road, Bournemouth.

EXPERIENCED lady Counter hand required for Woolwich; salary £2 per week. Please give references to Desmond, 203 Plaistow Road, Stratford, E. 15.

IMMEDIATELY.—Experienced Assistant for Dispensing; must be accustomed to first-class business; outdoors; easy hours; good salary. Apply W. Ive, 115 Gloucester Road, South Kensington.

LEWIS & BURROWS require the services of an Assistant for a suburban business; ineligible, or above military age. Apply 146 Holborn Bars, E.C.

LOCUM wanted (immediately) for a few weeks; qualified; salary £4 per week; East London. Reply 4/6, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

OUTDOOR Assistant (gentleman) required for a good-class business; either part or full time. Apply, with usual particulars, R. Bauhury, 186 Lavender Hill, S.W. 11.

QUALIFIED Chemist to manage Light Retail and Dispensing business, with some Insurance Dispensing; must be able to control staff; easy hours, no Sunday or night duty. Applicants, who must be men ineligible for the Army, are invited to send full particulars of experience, stating age and salary required, 1/16, Office of this Paper.

QUALIFIED young man, single and rejected, required immediately; permanent berth, with good prospects of advancement. State age, salary required, and when at liberty, "H. L." (281/360), Office of this Paper.

REQUIRED, lady Dispenser in large West-End house; hours 8.45 to 6 o'clock, 1 o'clock Saturdays, no Sunday duty. Apply, stating full particulars of past experience and salary required, to L. J., Manager, Drug Department, Army and Navy Stores, 105 Victoria Street, S.W. 1.

REQUIRED, lady Counter Assistant in large West-End establishment; hours 8.45 to 6 o'clock, 1 o'clock Saturdays, no Sunday duty. Apply, stating full particulars of past experience and salary required, to L. J., Manager, Drug Department, Army and Navy Stores, 105 Victoria Street, S.W. 1.

REQUIRED for country business, unqualified lady Assistant; used to Counter work and having had general experience; small knowledge of Dispensing preferable. Apply "L." (223/49), Office of this Paper.

SMART Counterman and Dispenser wanted (at once); must be ineligible or over military age; good wages to good man. Apply Parke's Drug Stores, Ltd., 65 Harmood Street, N.W. 1.

THOMAS ENGLAND (J. W. Lasham & Co.), High and South Streets, Romford ('Phone 505), requires the services of a resourceful, energetic Assistant, capable of earning good salary; preferably married, desiring permanency. Photo, references, full particulars in first letter, please.

UNIVERSITY COLLEGE HOSPITAL, Gower Street, W.C. 1.—Assistant Dispenser, holding Minor qualification (lady or gentleman), required; salary £145 per annum; hours 9 to 5, Saturdays 9 to 1; additional attendances on two evenings weekly until 9, and every third week on Saturday afternoon and for one hour on Sunday. Apply to C. H. Hampshire, Pharmacist.

UNQUALIFIED Assistant wanted; ineligible; good berth for suitable man. State age, salary, and reference in first letter, Taylor, Gibson & Co., 17 Bigg Market, Newcastle-on-Tyne.

VACANCY (soon) for qualified Manager; high-class Dispensing and Counter business, on South Coast; hours 8.30 to 7 o'clock, half-day weekly, no Sunday duty; salary 85s. per week, and free house, also commission on profits; half-moving expenses paid; permanency; applicant must be ineligible; good appearance, smart business man, good Window-dresser, and able to control staff. State age, height, when disengaged, experience, and full particulars, which will be treated in confidence, to 245/74, Office of this Paper.

WANTED, a gentlemanly Assistant, accustomed to a high-class business, for the Dispensing Counter; no N.H.I.; outdoors; others kept; hours of business, 8.30-7. Apply, giving full particulars, to Mr. Lewis, Chemist, Ealing, W. 5.

WANTED, Assistant, qualified or unqualified, for a mixed trade; working-class district; must be good Counterman; many specialities; exceptional references; good wages; permanent situation. Hulme's, Chemist, Nottingham.

WANTED, Dispenser, competent, to replace man ordered for service by Appeal Tribunal. Please state full particulars when replying to S. J. Coley, Ltd., 57 High Street, Stroud.

WANTED, Assistant for good-class Dispensing business; no N.H.I. work. Please send full details of experience, salary required, etc., to G., 44 Fortis Green, East Finchley, London, N. 2.

WANTED, qualified man to take temporary charge, with or without view to partnership; state terms, when at liberty; Assistant and Apprentice kept. E. Fowler, Chemist, Hull.

WANTED (at once), reliable Assistant; single; lady or gentleman; Dispensing and Retail; easy hours. Tiltman, 213 High Street North, East Ham.

WANTED, qualified gentleman or lady for management of country business near Derby; good references essential. Full particulars, including salary desired, in first letter, 2/32, Office of this Paper.

WANTED, reliable, qualified Assistant to manage good-class business; N.H.I.; must have excellent references. Full particulars, first letter, 3/39, Office of this Paper.

£3 5s. weekly, reasonable hours, and a comfortable berth with good prospects, offered to a competent, unqualified Assistant; must be definitely ineligible for military service, a tactful Counterman, and have highest references; medium-class cash business; S.W. London suburb. Please send full particulars of experience, in confidence, to 3/12, Office of this Paper.

WHOLESALE.

CHARLES MIDGLEY, LTD., 5 Mayes Street, Manchester, require one or two good Counter hands; also two Invoice Clerks. State experience, age, and salary required.

LADY wanted in Wholesale house; capable of taking charge of manufacture of Toilet and Medicinal preparations; must have full experience in these departments. Send full particulars and salary required to 280/400, Office of this Paper.

MANAGER or Manageress; used to the manufacture of Belts, Trusses, Suspensory Bandages, Puffs, Water-Bottle Covers, Sponge Bags, etc. Apply "L." (240/2), Office of this Paper.

SALES Manager to organise and attend sales; important lines Chemists, Hospitals, etc.; take full charge and travel; must be good Salesman. Write fully, stating experience and salary required, to 245/52, Office of this Paper.

TABLETS AND PILLS.—First-class man, thoroughly experienced, to control and develop an existing Wholesale Tablet and Pill business; all communications treated as strictly confidential. Apply "L." (243/28), Office of this Paper.

TRAVELLERS of good reputation, able to carry additional line, well advertised and in good demand, should communicate with E. T. Pearson & Co., Ltd., London Road, Mitcham, Surrey; contribution towards expenses and reasonable commission; state territory and lines now carried; confidence will be respected.

WANTED, a Tablet Maker, capable of taking sole charge of the manufacture of all kinds of Compressed Tablets. Apply, stating experience and wages required, "L." (243/67), Office of this Paper.

WAREHOUSEMAN wanted to take charge of Chemical and Drug Warehouse; must be military ineligible. Apply by letter to "G.," 9 & 10 St. Mary-at-Hill, E.C. 3.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

REQUIRED for British Tropical Colony, an unqualified Assistant; age 23 to 26; ineligible for the Army; one with all-round country experience preferred, and accustomed to brisk business; progressive salary and good opportunities to an energetic man; passage paid out; three years' agreement. Apply "Tropics" (237/62), Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

[HOME.]
RETAIL.

ASSISTANT; temporary or otherwise; unqualified; age 50. "Rhei," 37 Upper Kennington Lane, S.E.

AS Assistant Counterman or Dispenser; qualified. F. B., 9 Pepperhill, Shelf, Bradford.

AS Counter Assistant; excellent Salesman, formerly Traveller. Salesman, 81 Churchfield Road, Acton.

AS Locum or Manager until May; qualified; abstainer; over military age; disengaged. Apply 1/2, Office of this Paper.

ASSISTANT or Locum (ineligible) desires post immediately. Deni, 43 High Street, Southampton.

BIRMINGHAM or SUBURBS.—Dispenser (lady) requires post; nine years' experience, five Dispensing, four Counter. Apply H. M., 8 Canterbury Road, Birchfields, Birmingham.

BIRMINGHAM DISTRICT.—Young lady (experienced), studying for certificate, desires post as Dispenser and Bookkeeper with Doctor or Chemist. Apply 3/1, Office of this Paper.

BIRMINGHAM DISTRICT.—Qualified; over military age; £4 10s. week. Apply 3/100, Office of this Paper.

DISABLED Pharmaceutical Chemist would undertake pricing of stock or other clerical work at his own address. Greig, 17 Lennox Road, Worthing.

DISPENSER (woman), qualified, wants post London, Croydon, or easy distance. Apply 2/22, Office of this Paper.

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PHARMACIST, elderly, active, wants post near Manchester. Chemist, 7 Highfield Street, Cheetham, Manchester.

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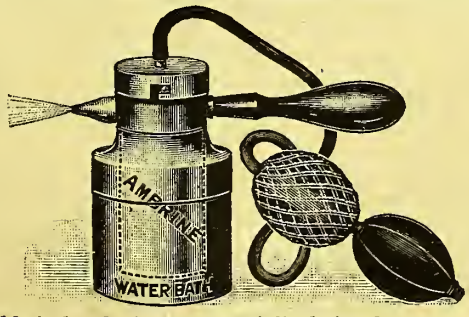

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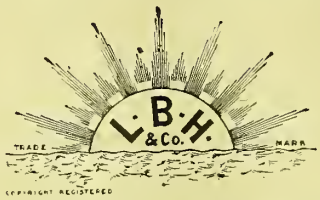

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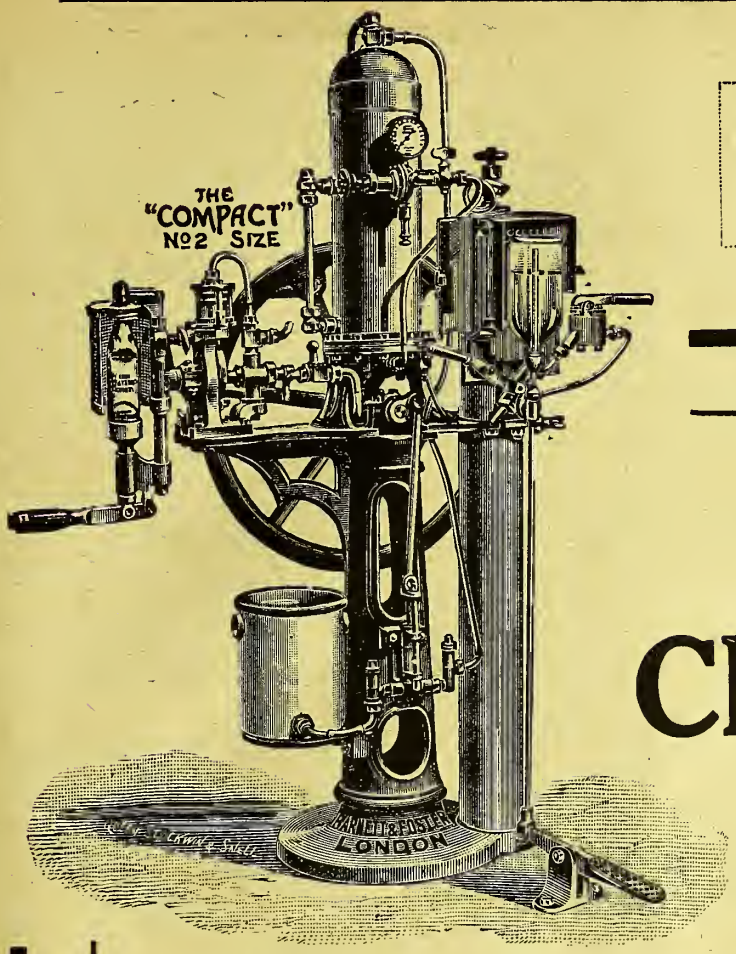

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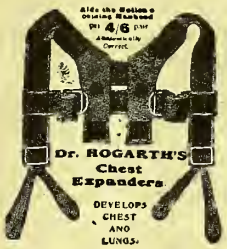

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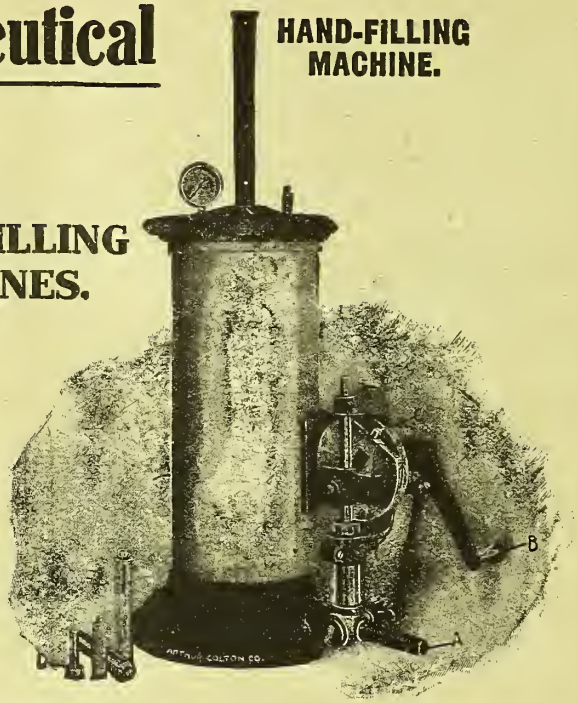

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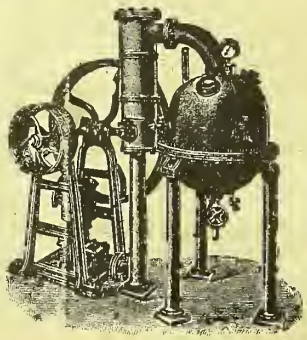

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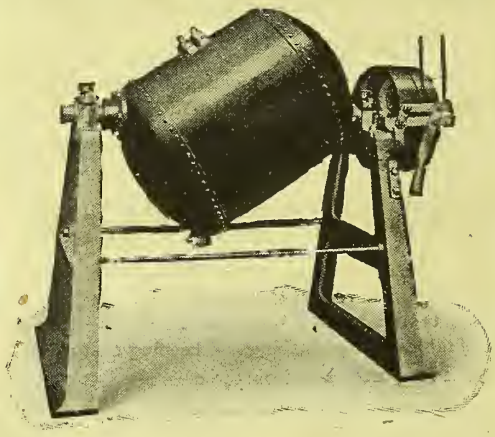

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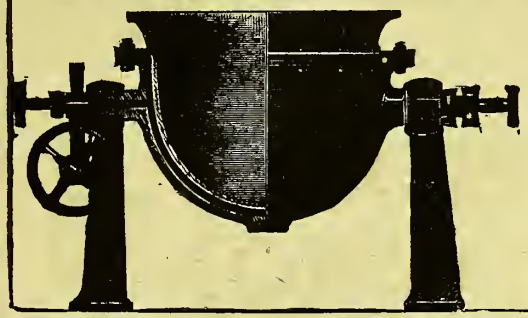

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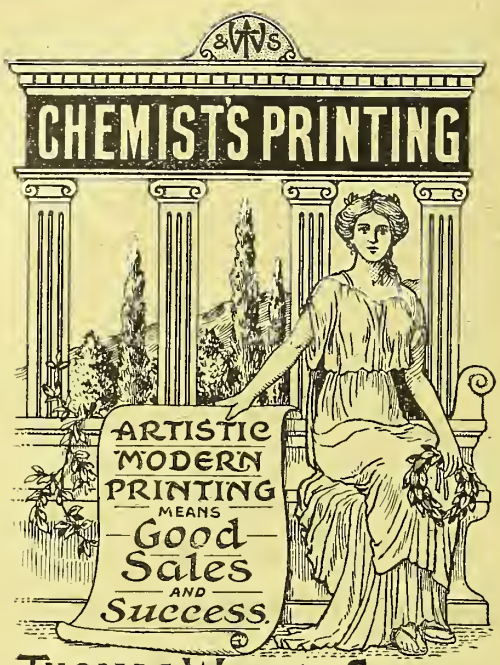

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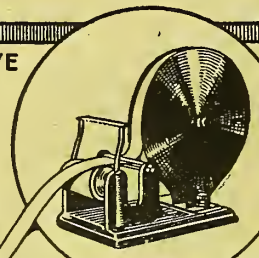

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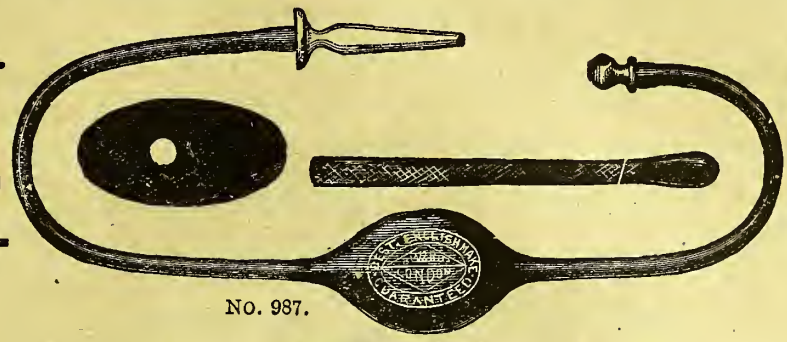

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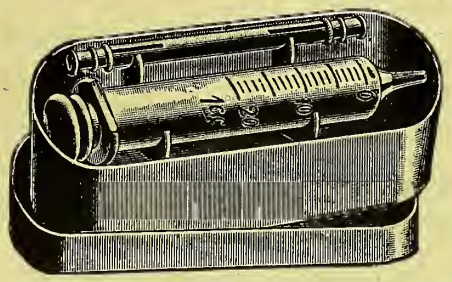

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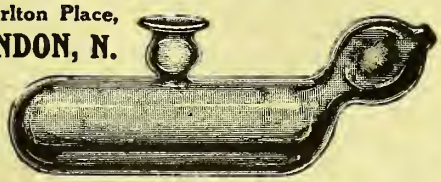

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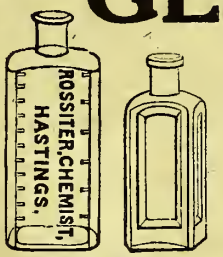

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8×12	5/–	7/6
8×14	5/5	8/4
9×12	5/4	8/–
10×12	5/8	8/6
10×14	6/5	9/8
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Have proved the Extraordinary Efficacy of the

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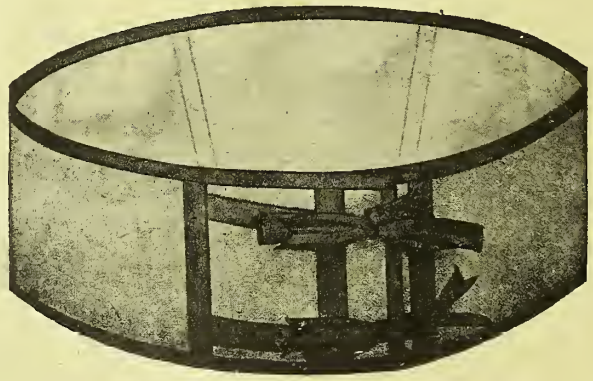

A medicated Vermin-proof Belt, made of warm flannel, lined with whalebone supports, and gives

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Adjustable to any size waist.

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